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competence in dental

# Safety Data Sheet
# -Glas Beads-
According to EG 1907/2006 (REACH)

Versions-No.: 03

Valid from: 12/2021
Replaces version No. 02 from 02/2015

| **1. Identification of substance and company** | |
|---|---|
| 1.1 Trade name: | Perlagran |
| 1.2 Product details: | Micro glass beads Blasting media |
| Product form: | Fine-grained powder |
| Purpose: | Auxiliary materials for surface treatment |
| 1.3 Manufacturer: | **Adentatec GmbH** |
| Street: | Konrad-Adenauer-Straße 13 |
| ZIP/city/Country.: | 50996 Köln/ GERMANY |
| Phone: | 0 221 – 35 96 100 |
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| **2. Hazards identification** | |
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| 2.1 Classification of the substance or mixture<br>. Classification according to Regulation (EC) No 1272/2008 | Not subject to labelling. There is no danger of silicosis during application.<br><br>. **Hazard statements**<br>H334 Aspiration hazard<br>H304 Respiratory sensitisation<br>H315 Causes skin irritation.<br><br>. **Precautionary statements**<br>P260 - Do not breathe dust.<br>P280 - Wear protective gloves / clothing / eye protection / face protection.<br>P281 - Use prescribed personal protective equipment. |
| 2.2 Label elements | **Information about labelling**<br>Not subject to compulsory labelling. |
| 2.3 Other hazards | No data available. |

**3. Composition/Data on components**

The information as to risk and precautions given in the chapters 4 to 8, 10 to 12 do not only apply to the product itself, rather to the resulting dust and vapours generated on working with it.

3.1. Chemical characterisation:
Glass beads

Alkali lime glass CAS: 65997-17-3
EINECS: 266-046-0

SVHC **No**

Additional information: For the wording of the listed hazard statements, see section 16.

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| **4. First aid measures** | |
| 4.1 General information: | **General information:** If there is a risk of unconsciousness, position and transport in a stable lateral position. If symptoms persist, consult a doctor.<br>in case of persistent symptoms. Remove contaminated clothing and shoes immediately and clean thoroughly before reuse.<br><br>**After inhalation:** Remove affected person from danger zone. Provide fresh air. In case of irregular breathing/respiratory arrest: Artificial respiration. Call a doctor immediately.<br><br>**After skin contact:** Wash with soap and water.<br><br>**After eye contact:** Rinse opened eye for 15 minutes under running water and seek medical advice.<br><br>**After ingestion:** Rinse mouth thoroughly with water. Do not give anything to unconscious persons. Consult a doctor immediately. |
| 4.2 Important acute and delayed symptoms and effects: | After inhalation: Supply fresh air; In case of respiratory irritation by the product, consult a doctor.<br><br>After ingestion:<br>Rinse out mouth and drink plenty of water. Breaking<br>Do not induce vomiting. If you feel unwell, seek medical advice.<br>After skin contact: Wash with soap and water, rinse.<br><br>After eye contact: Remove contact lenses, rinse eyes for 10 minutes under running water with eyelids open. If necessary consult a doctor. |
| 4.3 Information for the doctor: | No further relevant information available. |
| **5. Fire fighting measures** | |
| 5.1 Suitable extinguishing aids: | **Suitable extinguishing media**<br>Carbon dioxide; Extinguishing powder; Water spray; Foam<br><br>**Unsuitable extinguishing media**<br>Full water jet |
| 5.2 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: | No data available. |
| 5.3 Protective equipment: | No data available. |
| **6. Accidental release measures** | |
| 6.1 Person-related safety precautions: Protective equipment and to be used in emergencies procedure: | **Personnel not trained for emergencies**<br>Avoid dust formation. Observe protective regulations (see section 7 and 8).<br><br>**Emergency personnel**<br>No information available. Personal protective equipment see section 8. |
| 6.2 Measures for environmental protection: | No data available. |
| 6.3 Measures for | Take up mechanically. Avoid dust formation. Treat the absorbed |

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| cleaning/collecting: | material according to the section "Disposal" |
| 6.4 Reference to other sections: | No data available. |
| **7. Handling and storage** | |
| 7.1 Information for safe handling: | Avoid dust formation.<br><br>**General protective and hygienic measures**<br>Wash hands before breaks and at the end of work. Do not smoke, eat or drink while working. Immediately remove soiled, Remove contaminated clothing immediately. Do not inhale dust. Keep away from food and drink.<br><br>**Advice on protection against fire and explosion**<br>No special measures required. |
| 7.2 Conditions for safe storage, including intolerances: | Technical measures and storage conditions<br>Keep container dry, tightly closed and in a cool, well-ventilated place.<br>Requirements for storage rooms and containers<br>Store only in the original container. |
| Common storage notes: | Protect from moisture. |
| 7.3 Specific end uses: | No further relevant information available. |
| **8. Exposure controls and personal protection** | |
| 8.1 To be monitored parameter: | Fine dust limit values according to TRGS 900.<br><br>Components with biological limit values:<br><br>Observe the general dust limit value for alveolar dust content according to TRGS 900 are 1.25 mg/m3.<br><br>Additional notes: The lists valid at the time of preparation served as a basis. |
| 8.2 Exposure controls | Suitable technical control equipment<br>Ensure good ventilation. This can be achieved by local or room exhaust ventilation. If this is not sufficient to concentrations below the airborne limits, suitable respiratory equipment must be worn.<br>be worn. |
| **Personal protective equipment:** | **Wear safety shoes.**<br>**Respiratory protection:**<br>If occupational exposure limits are exceeded, suitable respiratory protective equipment must be worn. If there are no<br>If there are no occupational exposure limits, adequate respiratory protection measures must be taken if dusts are formed.<br>Respiratory filter particles FP2 - FP3<br><br>**Glove material:**<br>Butyl rubber<br>Fluorocarbon rubber (Viton)<br>Nitrile rubber<br>Natural rubber (latex)<br>Chloroprene rubber<br>Neoprene gloves. |

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| | **Hand protection:**<br>In case of possible skin contact with the product, the use of gloves, tested according to e.g. EN 374,offers sufficient protection. The protective glove should always be tested for its suitability for the workplace (e.g. mechanical resistance, product compatibility, antistatic properties). The glove manufacturer's instructions and<br>glove manufacturer's instructions and information on the use, storage, care and replacement of the gloves. Protective gloves should be replaced immediately if they become damaged or show the first signs of wear.<br>Arrange work processes so that gloves do not have to be worn all the time.<br><br>**Penetration time of the glove material:**<br>The exact penetration time should be obtained from the protective glove manufacturer and adhered to.<br><br>**Eye protection:**<br>Safety goggles (DIN 58211, EN 166)<br><br>**Body protection:**<br>Light protective clothing |
| **9. Physical and chemical properties** | |
| 9.1 Information on basic physical and chemical properties: | **Form / Colour:**<br>Solid White Fine Grained Powder<br><br>**Odour:**<br>Odourless<br><br>**Softening point:**<br>At approx. 650°C<br><br>**Melting point:** >1350°C<br><br>**Absolute density:** 2.5g/cm³<br><br>**Bulk density:** between 1.0 and 1.8 g/cm³, depending on the particle size distribution of the product.<br><br>**Solubility:**<br>Glass beads are insoluble except in hydrofluoric acid.<br><br>**The product is not explosive, however, formation of an of an explosive dust/air mixture is possible.** |
| 9.2 Other information: | -- |
| **10. Stability and reactivity** | |
| 10.1 Reactivity: | At approx.650°C the powder begins to soften, but without disintegrating. |
| 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 dangerous decomposition products known |

| **11. Toxicological information** | |
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| 11.1 Information on toxicological effects: | Acute oral toxicity<br>No data available<br><br>Acute dermal toxicity<br>No data available<br><br>Acute inhalation toxicity<br>No data available<br><br>Skin corrosion/irritation<br>No data available<br><br>Serious eye damage/irritation<br>No data available<br><br>Respiratory/skin sensitisation<br>No data available<br><br>Germ cell mutagenicity<br>No data available<br><br>Reproductive toxicity<br>No data available<br><br>Carcinogenicity<br>No data available<br><br>Specific target organ toxicity single exposure<br>No data available<br><br>Specific target organ toxicity repeated exposure<br>No data available<br><br>Aspiration hazard<br>No data available<br><br>Delayed and immediate effects and chronic effects<br><br>Effects after short or prolonged exposure<br>Contact with skin and eyes may cause mechanical irritation.<br>Inhalation of dusts may cause respiratory irritation of the respiratory tract.<br><br>The product is classified as non-carcinogenic by the International Agency for Research on Cancer (IARC) and the American Conferenceof Governmental Industrial Hygienists (ACGIH). |
| **12. Ecological information** | |
| 12.1 Toxicity: | Fish toxicity (acute)<br>No data available<br><br>Fish toxicity (chronic)<br>No data available<br><br>Daphnia toxicity (acute)<br>No data available<br><br>Daphnia toxicity (chronic)<br>No data available<br><br>Algal toxicity (acute)<br>No data available<br><br>Algal toxicity (chronic)<br>No data available<br><br>Bacterial toxicity<br>No data available |

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| 12.2 Persistence and degradability: | No data available |
| 12.3 Bioaccumulative potential: | No data available |
| 12.4 Mobility in soil: | No data available |
| 12.5 Results of PBT and vPvB assessment: | PBT assessment No data available.<br>vPvB assessment No data available. |
| 12.6 Other adverse effects: | No data available. |
| **13. Disposal considerations** | |
| 13.1 Waste treatment Methods: | Product<br>The allocation of a waste code number in accordance with the European Waste Catalogue (AVV) is to be carried out in consultation with the regional waste disposal company.<br>regional waste management company.<br><br>**120117 Radiation wastes with the exception of those falling under 120116.**<br><br>Packaging<br>Packaging must be emptied of all residues and must be disposed of properly in accordance with the legal regulations. Packaging that cannot be emptied must be disposed of in agreement with the regional disposal company. |
| **14. Transport information** | |
| | **14.1 Transport ADR/RID/ADN**<br>The product is not subject to ADR/RID/ADN regulations.<br><br>**14.2 Transport IMDG**<br>The product is not subject to IMDG regulations.<br><br>**14.3 Transport ICAO-TI / IATA**<br>The product is not subject to ICAO-TI / IATA regulations.<br><br>**14.4 Other information**<br>No information available.<br><br>**14.5 Environmental hazards**<br>For information on environmental hazards, if relevant, see 14.1 - 14.3.<br><br>**14.6 Special precautions for user**<br>No information available.<br><br>**14.7 Transport in bulk** according to Annex II of the MARPOL Convention and the IBC Code |
| **15. Regulatory information** | |
| 15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture: | **EU regulations**<br>**Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**<br>According to the available data and/or according to the information provided by the upstream suppliers, the product does not contain any substance(s),<br>which is/are considered as substance(s) subject to authorisation according to REACH Regulation (EC) 1907/2006 Annex XIV.<br><br>**REACH Candidate List of Substances of Very High Concern (SVHC) for the Authorisation Procedure** |

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| | According to the available data and/or according to the information provided by the pre-suppliers, the product does not contain any substance(s), which, according to Article 57 in combination with Article 59 of REACH Regulation (EC) 1907/2006, is/are to be considered for inclusion in Annex XIV (List of substances subject to authorisation).<br><br>**Regulation (EC) No 1907/2006 (REACH) Annex XVII: Restrictions on the manufacture, placing on the market and use of certain substances.**<br>placing on the market and use of certain dangerous substances, mixtures and articles<br>According to the available data and/or according to the information provided by the pre-suppliers, the product does not contain any substance(s),<br>subject to REACH Regulation (EC) 1907/2006 Annex XVII.<br><br>**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances.**<br>The product is not subject to Annex I, Part 1 or 2.<br><br>**Other regulations**<br>National health and safety regulations must be applied when using this product.<br>apply when using this product.<br><br>**National regulations**<br>**Water hazard class**<br>Class 1<br>Source: Classification according to AwSV (Ordinance on Installations for Handling Substances Hazardous to Water). Other regulations<br>TRGS 906 (List of carcinogenic activities or processes according to § 3 para. 2 No. 3 GefStoffV) must be observed. |
| 15.2 chemical safety assessment: | A chemical safety assessment has not been carried out for the present mixture. |

**16. Other information**

Data sources used to compile the data sheet:
Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended.
EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU
National occupational exposure limit value lists of the respective countries in the respective valid version.
Transport regulations according to ADR, RID, IMDG, IATA in the respective valid version. Data sources used to determine physical, toxicological and ecotoxicological data,
are indicated directly in the respective sections.

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ADR: Accord relatif au transport international des marchandises
dangereuses par route (European Agreement
Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative