

According to the REACH-Regulation (EC) No. 1907/2006

Date of issue: 20.02.2017 Printing date: 18.05.2017

Glass Beads

1. Identification of the substance / Preparation and Company:

1.1 Identification of the substance or preparation:

Commercial product name: Glass Beads

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Mineral blasting abrasive for industrial use

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: ERNST HINRICHS Dental GmbH

Street / mailbox: Borsigstr. 1

Country code. / postal code / city: D - 38644 Goslar Phone: 0 53 21 / 5 06 24 Fax: 0 53 21 / 5 08 81

E-mail / Website: info@hinrichs-dental.de / www.hinrichs-dental.de

Further information obtainable from: ERNST HINRICHS Dental GmbH

1.4 Emergency telephone number

ERNST HINRICHS Dental GmbH: +49 (0) 53 21 / 5 06 24 - 25 (Mon-Fri. 8 a.m. – 4 p.m.)

2. Hazards Identification:

2.1 Classification Not applicable.

2.2 Label elements: Does not require labelling under the CLP Regulation (EC) No.

1272/2008. But please take note of this product information. No

risk of silicosis during application.

Safety instructions: Possible dust exposure due to fine dust particles.

2.3 Other hazards: Not known.

3. Composition / Information on Ingredients:

S.1 Ingredients (mean value)
Silicon dioxide (SiO₂) 70,00-75,00%
Sodium dioxide (NA₂O): 12,00-15,00%
Calcium oxide (CaO): 7,00-12,00%
Magnesium oxide (MgO): max. 5,00%

Aluminium oxide (AL_2O_3): max. 2,50% Potassium dioxide (K_2O): max. 1,50%

Chemical characterisation	EINECS	CAS No.	(1) REACH Registration No. (2) CLP Notification No.	Classification according to CLP Regulation (EC) No. 1272/ 2008	
				Hazard classes / Hazard categories	Hazard statements
Glass	266-046-0	68997-17-3	Not subject to REACH- Regulation	-/-	-/-

Hazardous substances:

No dangerous ingredients.

Substances with prescribed EC exposure

Does not contain substances with EC exposure limits.

values:

4. First aid measures:

4.1 General information: Consult a doctor in case of health disorders.

After inhalation: Provide the affected person with fresh air. Consult a doctor in

case of irritation of the respiratory tract.

After eye contact: Remove contact lenses and rinse the eyes with open eyelids

for 10 minutes under running water. If necessary, consult an

ophthalmologist.

After skin contact: Wash with water and rinse.

According to the REACH-Regulation (EC) No. 1907/2006

Date of issue: 20.02.2017 Printing date: 18.05.2017

Glass Beads

4.3

5.2

Rinse mouth and drink plenty of water. Do not induce vomiting. After swallowing:

Not known.

If you feel unwell, seek medical advice.

4.2 Most important symptoms and effects, both

acute and delayed:

Indication of any immediate medical attention Treat systematically.

and special treatment needed:

Fire Fighting measures:

Suitable extinguishing agents: Product does not burn. Match extinguishing measures to

ambient situation.

Extinguishing media that must not be used:

Special hazards by the substance or the preparation itself, its combustion products or Not known. Not known.

resulting gases: Special protective equipment for fire-fighting:

Match the firefighting measures to the environmental

conditions. Not known.

5.4 Additional information:

6. Accidental release measures:

Personal precautions: Avoid dust formation. Round grains on the floor increases risk 6.1

of slipping. Not known.

6.2 Environmental precautions:

6.3 Methods for cleaning: Collect mechanically and dispose of according to regulations.

6.4 Reference to other sections:

Refer to protective measures in section 7 and 8.

Additional information:

Not known.

Handling and Storage:

Handling:

Information for safe handling: Avoid dust formation.

Information about fire- and explosion

protection:

No special fire protection measures are necessary.

Additional information: None known.

Conditions for safe storage, including any incompatibilities

Information on storage conditions: Requirements for storage rooms and

containers:

Always store product in dry conditions. No special requirements needed.

Storage class VCI: LGK 13 (non-combustible solids)

7.3 Specific uses:

Glass Beads are used for the manufacture of or use as blasting

or grinding abrasives.

Exposure controls / Personal protection:

Control parameters

Occupational exposure limit values in the workplace and/ or biological limit values

Occupational Exposure Limits (OEL) in Germany for dusts Inhalable dust: 10 mg/m³ Respirable dust: 1,25 mg/m³

Each with excess factor 2 according to TRGS 900 (German technical regulations for hazardous substances).

Community exposure limits: Country specific. Please inquire in individual cases.

Limitation and monitoring of exposure



Printing date: 18.05.2017

According to the REACH-Regulation (EC) No. 1907/2006

Date of issue: 20.02.2017

Glass Beads

Appropriate engineering controls: Technical measures and the application of suitable work

processes have priority over the use of personal protective equipment. Provide adequate ventilation. This can be achieved

by local suction or general air extraction.

Glass Beads are not a hazardous substance, thus only the general dust limit value applies. Suitable assessment methods to verify the effectiveness of the protective measures taken include metrological and non-metrological determination methods as described in the Technical Rules for Hazardous Substances (TRGS) 4021 and BS EN 14042 "Workplace areas, Guidelines for the implementation and application of processes for assessment of exposure to chemical and

biological agents".

Personal protective equipment: The use of personal protective equipment is dependent on the

concentrations and quantity of hazardous substances in their

execution in specific workplaces.

Respiratory protection: Normally, no personal respiratory protective equipment is

necessary. In case of insufficient ventilation or exceeded workplace limits, a protective breathing mask should be warn

(FFP filtering half mask depending on the existing

concentration).

Hand protection: Gloves.

Material of gloves: Leather.

Eye protection: Tight-sealing protective eye wear (dust-protection goggles) in

accordance with EN 166:2001.

Body protection: With normal use, no body protection by half or full-body

coverall and boots is required.

Industrial hygiene measures: Minimum standards for protective measures when handling

working materials are listed in TRGS 500. Do not eat, drink,

smoke or take drugs while using this product.

Avoid contact with skin, eyes and clothing. Remove soiled or soaked clothing immediately. Wash hands before breaks and

at end of work. Protect skin by using skin creams. See section 6 and 7; no further action is required.

Environmental exposure controls:

9. Physical and chemical properties:

9.1 General information:

Form: round Physical state: solid

Colour: white-transparent

Odour: odourless

Safety data:

Explosive properties: The product itself is not explosive, however, the formation of

explosive dust-air mixtures are possible.

Lower explosive limit:

Upper explosive limit:

Vapour pressure:

Density:

Expiry time:

None known.

Not relevant.

Approx. 2,5 g/cm³

Not relevant.

Solubility in water:

pH value:

Boiling point:

In-soluble in water.

Not applicable.

Not applicable.

Flashpoint: Not determined, as the product is not flammable.

Melting point: Approx. 730°C

Ignition temperature: Not determined, as the product is not flammable.

According to the REACH-Regulation (EC) No. 1907/2006

Glass Beads

Date of issue: 20.02.2017 Printing date: 18.05.2017

The information on explosion limits refers to Glass Beads. Please refer to the technical data sheet for other physical and chemical data.

Other information: 9.2 None.

Stability and Reactivity:

10.1 Reactivity: Glass Beads are non-reactive and do not change with proper

handling and storage.

10.2 Chemical stability: Glass Beads are chemically stable and do not change with

proper handling and storage.

No hazardous reactions known. 10.3 Possibility of hazardous reactions:

10.4 Conditions to avoid: No decomposition if used according to specifications.

10.5 Incompatible materials: No hazardous reactions known.

10.6 Hazardous decomposition products: No known hazardous decomposition products.

Toxicological Information:

11.1 Information on toxicological effects:

be observed.

No data on the product available. Acute toxicity: Irritation: No data on the product available. No data on the product available. Corrosivity: Sensitisation: No data on the product available.

Repeated dose toxicity:

CMR effects (carcinogenic, mutagenic and

toxic to reproduction):

Summarised evaluation of the CMR

properties:

Practical experience (relevant for

classification and other observations):

Carcinogenicity: Mutagenicity:

Reproductive toxicity:

Other information:

According to current IFA report the product contains no

silicosis-including, toxic and carcinogenic components. The indications given in section 8 of this product information must

No known toxicity of Glass Beads.

No carcinogenic effect according to IFA report.

No known CMR properties.

No data on the product available.

No known carcinogenicity of Glass Beads.

No data on the product available. No data on the product available.

Not known.

12. Ecological Information:

No known effects. 12.1 Toxicity:

For Glass Beads no environmental problems are to be Ecotoxicity:

expected when handled and used properly.

Fish toxicity: Harmful effects for aquatic organisms are not expected.

Aquatic invertebrates: Harmful effects for aquatic organisms are not expected. Harmful effects for aquatic organisms are not expected. Water plants:

12.2 Persistence and degradability: Based on current experience, this product is inert.

12.3 Bioaccumulation potential: No data available. Accumulation in biological materials is rather

unlikely.

12.4 Mobility in soil: Potential not known.

12.5 Results of PBT and vPvB assessment: Not relevant. The substances in this product do not meet the

criteria for classification as PBT or vPvB.

12.6 Other harmful effects: Not known.

Disposal Considerations:

13.1 Waste treatment methods:

Product: Glass Beads. If recycling is not possible, waste must be

disposed of in compliance with national and local regulations.

Confirm the exact waste code with the disposer.



Printing date: 18.05.2017

According to the REACH-Regulation (EC) No. 1907/2006

Date of issue: 20.02.2017

Glass Beads

Waste Code according to European Waste

Catalogue (EWC):

12 0117 waste blasting material other than those mentioned in

12 0116.

Recommendation: Contact ERNST HINRICHS Dental GmbH for the recycling of

used Glass Beads - GP.

13.2 Packaging: National and local regulations must be followed.

Contaminated packaging: Packaging with Glass Beads residues can be recycled.
Cleaned packaging: Packaging can be reused after being cleaned or recycled.

14. Transport Information:

14.1 Not considered hazardous goods in terms of these transport regulations.

15. Regulatory Information:

15.1 EU Regulations: Not known.

National regulation:

Water hazard class: Not hazardous to water, classification according to VwVwS,

Annex 4

Technical Instructions on Air Quality Control

(TA-Luft):

Substances not mentioned by name.

Hazardous Incident Ordinance (12.BlmSchV

[German Federal Immission Control

Ordinance 1):

Substances not mentioned by name.

Solvents Ordinance (31.BimSchV [German Federal Immission Control Ordinance I):

Federal Immission Control Ordinance I): Chemicals Prohibition Ordinance (CPO):

Relevant technical regulations for hazardous

substances:

Substances not mentioned by name.

Substances not mentioned by name.

Contains no hazardous substances.

Employment Restrictions:

Main all and a second control of the second

Miscellaneous: Not subject to the VOC Regulation.

International regulations: All Glass Beads ingredients are listed with TSCA.

15.2 Chemical safety assessment: Not relevant.

16. Further Information:

This information is based on our present knowledge. However this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

None known.

Further applicable EC directives:

None known.

Restrictions on use recommended by the

For industrial application only.

manufacturer: Other notices:

The product information in this documentation is correct to the best of our knowledge at the time of printing. The information is intended to provide you with advice on the safe handling of the product mentioned in this product information for storage, processing, transport and disposal. The information cannot be applied to other products. If the product mentioned in this documentation is in any way tampered with i.e. mixed with other materials, processed or undergoes processing, the information as supplied in this document no longer applies to the new product unless stated otherwise.

Changes since the last version

Literature and data sources

Regulations

REACH Regulation (EC) No. 1907/2006

CLP Regulation (EC) No. 1272/2008

Hazardous Substances Ordinance (GefStofN)

Commission Decision 2000/532/EC (AW)

Transport Regulations according to ADR, RIO

and IATA

TRGS 900

VOC Regulation (ChemVOCFarbV)



According to the REACH-Regulation (EC) No. 1907/2006

Date of issue: 20.02.2017

Glass Beads

Printing date: 18.05.2017

Hazard statements, referred to in section 2 None and 3 according 1D Regulation (EC) No.

1272/2008:

The above information is based on the present state of knowledge; however, this shall not constitute a guarantee of product properties and establishes no contractual legal rights. Existing laws and regulations must be strictly followed by the recipient or user of the blasting medium on their own responsibility.

Legend

ADR European agreement concerning the international carriage of dangerous goods by road

AW/EWC European Waste Catalogue

BimSchV Regulation on the Implementation of the (German) Federal Immission Control Ordinance

CAS Chemical Abstracts Service
EC European Community
EN European Standard

IATA-DGR International Air Transport Association-Dangerous Goods Regulations

PBT persistent, bioaccumulative, toxic

RID Regulations concerning the International Carriage of Dangerous Goods

TRGS Technical Rules for Hazardous Substances

TSCA Toxic Substances Control Act

voc Volatile Organic Compounds (VOCs) vPvB very persistent and very bioaccumulative

VwVwS Administrative Regulation on Substances Hazardous to Water