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

Revised on: 27.01.2023

Glass Beads



Ultimate Dental Supply

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

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: SILADENT Dr Bohme & Schops GmbH

Street / mailbox: Im Klei 26
Country code. / postal code / city: D-38644 Goslar

Phone: Tel: +49 (0) 5321/3779 0
Fax: Fax: +49 (0) 5321 / 3896 32
info@siladent.de www.siladent.de

Further information obtainable from:

SILADENT Dr Bohme & Schops GmbH

1.4 Emergency telephone number +49 (0) 5321 3779 13 11 26 Poisons Hotline Australia

SILADENT Dr. Böhme & Schöps GmbH: Mon - Fri. 8am to 4pm 24 hours / 7 days

SECTION 2: Hazards identification

E-mail / Website:

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures: This is a metastable glass structure.

| Chemical characterisation | EINECS | CAS No. | (1) REACH Registration (2) CLP Notification No. | Classification a Requlation (EC) Hazard classes / hazard | • |
|---------------------------|-----------|------------|---|--|-----|
| | | | | categories | |
| Glas | 266-046-0 | 65997-17-3 | Not subject to REACH-Regulation. | -/- | -/- |

| | Ingredients (mean value) |
|--|--------------------------|
| Silicon dioxide (SiO ₂) | 70,00 - 75,00 % |
| Sodium dioxide (NA ₂ O): | 12,00 - 15,00 % |
| Calcium oxide (CaO): | 7,00 - 12,00 % |
| Magnesium oxide (MgO): | max. 5,00 % |
| Aluminium oxide (AL ₂ O ₃): | max. 2,50 % |
| Potassium dioxide (K ₂ O): | max. 1,50 % |

^{*} not silicogenic resp. crystalline

Substances listed on the so called 'Candidate List of Substances of Very High Concern (SVHC) for authorisation' of the European Chemicals Agency (ECHA) are not intentional ingredients of this product. It is therefore not to be expected that those substances are present in quantities of > 0.1 % in the product.

Hazardous substances: No dangerous ingredients.

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Substances with prescribed EC exposure values:

Does not contain substances with EC exposure limits.

values

SECTION 4: First aid measures

Please also take note of sections 8 and 16 of this product information.

4.1 Description of first aid measures

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.

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

If you feel unwell, seek medical advice.

4.2 Most important symptoms and effects,

both acute and delayed:

Not known.

4.3 Indication of any immediate medical

attention and special treatment needed:

Treat systematically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

ambient situation.

Unsuitable extinguishing media: Not known.

5.2 Special hazards arising from the product: Not known.

5.3 Advice for fire fighters Match the firefighting measures to the environmental conditions.

Additional information: Not known.

SECTION 6: Accidental release measures

6.1 Personal precautions, protectiveAvoid dust formation. Round grains on the floor increases risk

equipment and emergency procedures: of slipping.

6.2 Environmental precautions: Not known.

6.3 Methods and materials for containment Pick

and cleaning up:

Pick up mechanically and dispose of properly.

6.4 Reference to other sections: Refer to protective measures in section 7 and 8.

Additional information: Not known.

SECTION 7: Handling and storage

7.1 Precautions for safe handling For safety reasons, it is recommended to use a protective sieve

during filling.

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Information for safe handling: Avoid dust formation.

Information about fire- and explosion

protection:

No special fire protection measures are necessary.

Additional information: None known.

7.2 Conditions for safe storage, including any incompatibilities

Information on storage conditions: Always store product in dry conditions.

Requirements for storage rooms and

containers:

Storage should take place in dry, ventilated rooms with a temperature as constant as possible. Avoid large temperature fluctuations, as they can lead to clumping. A storage period of 12 months should not be exceeded. Stack pallets max. 2 high.

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

7.3 Specific end uses: Mineral blasting abrasive for industrial use.

SECTION 8: Exposure controls/personal protection

Control parameters

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

| Dust limits | CAS | MAK value mg/m ³ | | Spzbg |
|--------------------|-----|--|---|-------|
| | | inhalable fraction (E) ¹ mg/m ³ | respirable fraction (A) ¹ mg/m3 | |
| General dust limit | - | 4 | 0,3 | - |

Community exposure limits:

Country specific. Please inquire in individual cases.

8.2 Limitation and monitoring of exposure 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) 402 and BS EN 14042.

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: Leather.

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

accordance with EN 166:2001.

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

and boots is required.

not usefully applicable

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.

Environmental exposure controls: See section 6 and 7; no further action is required.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state: solid

Colour: white-transparent

Odour: odourless

Melting point / freezing point: approx.730 °C / not usefully applicable

Boiling point or initial boiling point and

boiling range:

Flammability: not determined as product is not flammable

Lower and upper explosion limit: Not known. The product itself is not explosive; however,

formation of explosive air/dust mixtures is possible.

not determined as product is not flammable Flash point: Auto-ignition temperature: not determined as product is not flammable **Decomposition temperature:** not determined, as product does not decompose

not usefully applicable

Kinematic viscosity not usefully applicable insouble in water Solubility:

Partition coefficient n-octanol/water (kg

not usefully applicable value): Vapour pressure: not relevant

Density and/or relative density: approx. 2.5 g/cm3 Relative vapour density: not relevant Particle characteristics: not relevant

9.2 Other information: None.

SECTION 10: Stability and reactivity

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

handling and storage.

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

proper handling and storage.

10.3 Possibility of hazardous reactions: No hazardous reactions known.

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.

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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1"272/2008:

Does not require labelling under the CLP Regulation (EC) No.

1272/2008.

According to current DGUV 500 investigation report the product

contains no silicosis-inducing, toxic and carcinogenic

components. The indications given in section 8 of this product

information must be observed.

Acute toxicity:No data on the product available.

Skin corrosion/irritation:No data on the product available.

Serious eye damage/irritation:

No data on the product available

Respiratory or skin sensitisation:No data on the product available

Germ cell mutagenicity:No data on the product available

Carcinogenicity: No known carcinogenicity of Glass beads.

Reproductive toxicity:

No data on the product available

STOT-single exposure: No data on the product available

STOT-repeated exposure: No data on the product available

Aspiration hazard:No data on the product available

11.2 Information on other hazards: None

SECTION 12: Ecological information

12.1 Toxicity: No known effects.

Ecotoxicity: For Glass Beads no environmental problems are to be 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.

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

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 Endocrine disrupting properties: The product does not contain substances in quantities of 0.1 %

or more that have endocrine disrupting properties according to

REACH Article 57 (f).

Other harmful effects: Not known.

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SECTION 13: 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.

Waste Code according to European Waste

Catalogue (EWC):

12 0117 waste blasting material other than those mentioned in

12 0116.

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.

SECTION 14: Transport information

14.1 UN number or ID number: No dangerous

14.2 UN proper shipping name

ADR/RID: No dangerous goods IMDG-Code / ICAO-TI / IATA-DGR: No dangerous goods

14.3 Transport hazard class(es)

ADR / RID / IMDG-Code / GGVSee / ICAO-

TI / IATA-DGR:

No dangerous goods

14.4 Packing group: No dangerous goods

14.5 Environmental hazards

Label environmentally hazardous substances ADR / RID / IMDG-Code: nο

ICAO-TI / IATA-DGR:

14.6 Special precautions for user: see section 6 to 8

14.7 Transport in bulk according to IMO

instruments:

Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the product

EU Regulations: Glass Beads are not subject to the Regulation 722/2012/EU

(ADI-Free).

National regulations

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

Technical instructions on air quality (TA-

Luft):

Substances not mentioned by name.

Hazardous Incident Ordinance

(12.BlmSchV [German Federal Immission

Control Ordinance]):

Substances not mentioned by name.

Solvents Ordinance (31.BimSchV [German Substances not mentioned by name.

Federal Immission Control Ordinance I):

Chemicals Prohibition Ordinance: Substances not mentioned by name.

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Relevant Technical Regulations for

Hazardous Substances:

Contains no hazardous substances.

Employment Restrictions: None known.

Miscellaneous: Glass beads are not subject to the VOC Regulation.

International regulations:All Glass Beads ingredients are listed with TSCA, AICS,

DSL/NDSL, KECL, PICCS, IECS, NZIoC, TCSCA and KKDIK.

15.2 Chemical safety assessment: Not relevant.

SECTION 16: Other information

Further applicable EC directives: None known.

Restrictions on use recommended by the

manufacturer:

For industrial application only.

Other information:

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

2018-07-17 Advice Protective sieve 2018-08-01 Regulation 722/2012/EU

2020-08-04 Supplement International Regulations, supplement

AwSV

Literature and data sources

Regulations REACH Regulation (EC) No. 1907/2006

CLP Regulation (EC) No. 1272/2008

Hazardous Substances Ordinance (GefStoffV) Commission Decision 2000/532/EC (AVV)

Transport Regulations according to ADR, RID and IATA

TRGS 900

VOC Regulation (ChemVOCFarbV)

Hazard statements, referred to in section 2 None and 3 according to 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

AVV/EWC: European Waste Catalogue

AwSV: Administrative Regulation on Substances Hazardous to Water

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

CAS: Chemical Abstracts Service

DGUV: German statutory accident insurance

EC: European Community
EN: European Standard

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GGVSee: Dangerous Goods Ordilance Sea

IATA-DGR: International Air Transport Association-Dangerous Goods Regulations

IBC-Code: International Code for the Construction and Equipment of Ships carrying Dangerous

Chemicals in Bulk

ICAO-TI: International Civil Aviation Organization-Technical Instructions

IMDG-Code: International Maritime Code for Dangerous Goods

IMO: International Maritime Organization
MAK: Maximum workplace concentration
PBT: persistent, bioaccumulative, toxic

RID: Regulations concerning the International Carriage of Dangerous Goods

Spzbg Peak Limitation Category (Exceedance Factor)
TRGS: Technical Rules for Hazardous Substances
VOC: Volatile Organic Compounds (VOCs)
vPvB: very persistent and very bioaccumulative

TSCA: Toxic Substances Control Act

AICS: Australian Inventory of Chemical Subsances

DSL/NDSL: Canada Domestic Substances List / Non-domestic Substances List

KECL: Korea Existing Chemicals List

ENCS: Japanese Existing and New Chemical Substances

PICCS: Philippine Inventory of Chemicals and Chemical Substances

IECSC: Existing chemical inventory in China NZIoC: New Zealand Inventory of Chemicals

TCSCA: Toxic Chemical Substance Control Act in Taiwan

KKDIK: Turkish Regulation on Chemicals Registration, Evaluation, Authorisation and Restriction