

Safety Data Sheet



according to (EG) No 1907/2006 (REACH)

revised: 2011-04-12

1. Identification of the substance/preparation/company/undertaking

Product name: **Blasting shots glass beads**

Order No: 0 955 302-1 bis 0 955 354 and 0 955 384

Supplier: joke Technology GmbH
Asselborner Weg 14-16
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2. Hazards identification

Hazards identification:

Not subject to labelling requirements in terms of the Dangerous Preparations Directive 1999/45/EG. However, adhere to the information in this safety data sheet. No silicosis hazard derives from its use.

Special hazards notices for humans and the environment:

Potential dust load in case of respirable dust.

3. Composition/ information on ingredients

Name: Glass
CAS No.: 65997-17-3
EINECS No.: 266-046-0

Hazardous ingredients: Contains no hazardous ingredients.

Other ingredients (average values):

Silicon dioxide (SiO₂):
Sodium oxide (Na₂O): 70,00 - 75,00 %
Calcium oxide (CaO): 12,00 - 15,00 %
Magnesium oxide (MgO): 7,00 - 12,00 %
Aluminium oxide (Al₂O₃): approx. 5,00 %
Potassium oxide (K₂O): approx. 2,50 %
approx. 1,50 %

Substances with specified EC threshold values:

Contains no substances with specified EC threshold values.

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4 . First-aid measures

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| General information: | Seek medical advice at the cocurrence of a health disorder. |
| After inhalation: | Ensure supply of fresh air. Consult a doctor in case of irritation of the respiratory tracts. |
| After skin contact: | Wash with water and rinse. |
| After eye contact: | Remove contact lenses, hold eyelids open and rinse generously with clean, flowing water for at least 10 minutes. Consult a doctor if necessary. |
| After ingestion: | Rinse mouth and drink plenty of water. Do not induce vomiting. In case of sickness, consult a doctor. |
| Advice to medical doctor: | No information available. |

5. Fire-fighting measures

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| Suitable extinguishing media: | Product does not burn. Match extinguishing measures to surroundings. |
| Extinguishing media that must not be used: | none known |
| Special hazards by the substance or the preparation itsself, its combustion products or resultin gases: | none known |
| Special protective equipment for fire-fighting | none known |
| Additional information: | none known |

6 . Accidental release measures

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| Personal precautions: | Avoid dust formation. Adhere to safety measures under point 7 and 8. |
| Environmental precautions: | none known |
| Methods for cleaning up: | Collect mechanically and dispose of according to regulations. |
| Additional information: | none known |

7 . Handling and storage

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| Advice on safe handling: | Avoid dust formation. |
| Advice on protection against fire and explosion: | No special fire protection measures are required. |
| Additional advice: | none known |
| Information on storage conditions: | Store product in a dry place. |
| Requirements for storage facilities and containers/ vessels: | No special requirements. |
| VCI storage class: | Storage class 13 (non-combustible solids). |
| Special uses: | Glass beads is used for the manufacture of or use as blasting or grinding abrasives. |

8 . Exposure controls/personal protection

Workplace exposure limits and/ or biological limits

German workplace exposure limits (WEL) for inhalable dust: Inhalable dust: 10 mg / m³
Respirable dust: 3 mg / m³
Each with excess factor 4 according to TRGS 901-96 (German technical regulations for hazardous substances).

Occupational exposure limits (OEL) for the European Union: Country-specific. Enquire in specific cases.

Exposure control: Technical measures and the implementation of suitable operational processes have preference over the use of personal precautions. Since Silicon carbide is not a hazardous substance. Nevertheless, please take note of the TRGS 402 and TRGS 900.

Personal protective equipment: The type of personal protective equipment must be selected depending on the concentration and quantities of hazardous substances, specific to the workplace.

Respiratory protection: Generally no personal respiratory protection is needed. In case of inadequate ventilation or exceeding of the workplace exposure limits a protective breathing mask must be worn (FFP - filtering face piece) filter half mask depending on the existing concentration).

Hand protection: Glove material: leather

Eye protection: Tight-fitting safety goggles. Use (flexible mask goggles) in compliance with EN 166:2001.

Skin protection: No skin protection by means of half or full body protective suit and boots is required at appropriate application.

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Industrial hygiene measures: The minimum standards for safety measures in the handling of workin materials are contained in the TRGS 500. Do not eat, drink, smoke or sniff while working. Avoid contact with skin, eyes and clothing. Remove soiled or soaked clothing immediately. Wash hands before breaks and after work. Use appropriate skin protection products.

Environmental exposure controls: See section 6 and 7. No measures over and above required.

9 . Physical and chemical properties

Form: round
Physical state: solid
Colour: white-transparent
Odor: odourless

Important health, safety and environmental information

Explosive properties: The product is not explosive, however, the formation of explosive dust-air mixtures are possible.

Lower explosive limit: none known
Upper explosive limit: none known
Vapour pressure: not relevant
Density: approx. 2.5 g/ cm³
Expiry time: not relevant
Solubility in water: not water-soluble
ph value: not applicable
Boiling point: not applicable
Flashpoint: not determined, since the product is not flammable.
Melting point: approx. 730° C
Ignition temperature: not determined, since the product is not flammable.

The information on explosion limits is based on Glas beads. Further physical-chemical data can be obtained from the technical data sheet.

10 . Stability and reactivity

Conditions to avoid: In case of appropriate use, there are no known conditions to be avoided.

Materials to avoid: In case of appropriate use, no hazardous reactions are to be expected.

Hazardous decomposition products: In case of appropriate use, there are no known hazardous decomposition products.

11 . Toxicological information

Toxicokinetics, metabolism and distribution: According to the BGIA (Institute for Occupational Safety and Health) Expert Opinion No. 2008/20346/9311 of 29.04.2009 mat-loe the product glass beads does not contain any silicogenic, toxic and carcinogenic components.

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| Acute toxicity, irritability and cauterisation: | No information available on product. |
| Sensitivity (skin, respiratory tract): | No information available on product. |
| Toxicity at repeated intake/absorption (subacute, subchronic and chronic): | Glass beads is not known for toxicity. |
| CMR effects (carcinogenic, mutagenic and reprotoxic effects): | According to BGIA Expert Opinion no carcinogenic effects have been identified. |
| Summary of assessment of CMR properties: | No known CMR properties. |
| Practical experiences (classification-related and other observations): | No information available on product. |
| Other information: | Aluminium oxide: LD 50 > 5000 mg ² / kg ⁻¹ (rats, oral) |

12 . Ecological information

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| Ecotoxicity: | No ecological problems are to be expected if Glass beads is handled and used correctly. |
| Fish toxicity: | There are no harmful effects on water organisms. |
| Aquatic invertebrates: | There are no harmful effects on water organisms. |
| Aquatic plants: | There are no harmful effects on water organisms. |
| Mobility: | According to current experiences this product is not soluble in water. |
| Persistence and degradability: | According to current experiences this product is inert and degradable. |
| Bioaccumulation potential: | No data available. A concentration in organic material is rather improbable since it is inert and insoluble. |
| Results of the verification of the PBT properties (persistent, bioaccumulative and toxic): | The ingredients in this product do not fulfil the criteria to be classified as PBT or vPvB (Very Persistent and Very Bioaccumulative). |
| Other harmful effects: | No known harmful effects. |

13 . Disposal considerations

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| Substance / preparation: | Glass beads |
| Recommendation: | Contact the company joke Technology GmbH about recycling of the used Glass beads. |
| Disposal code according to the Waste Catalogue Ordinance: | 120117 blasting abrasive wastes with the exception of those that fall under 120116. |
| Packing/ contaminated packaging: | Packaging with Glass beads residue in the paper bag or in the big bag can be recycled. |
| Cleaned packaging: | Cleaned packaging can be used again or be recycled. |

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14 . Transport information

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| Land transport ADR/RID: | Not considered hazardous goods in terms of these transport regulations. |
| Transport by sea IMDG Code /GGVSee: | Not considered hazardous goods in terms of these transport regulations. |
| Air transport ICAO-TI and IATA-DGR: | Not considered hazardous goods in terms of these transport regulations. |

15 . Regulatory information

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| Chemical safety assessment (CSA): | A chemical safety assessment for substances in this product was not performed. |
| Classification / labelling according to EEC directives: | none required |
| Symbol(s) and hazard designation(s) of the product: | none required |
| Hazard-determining components of labelling: | Does not contain any. |
| Contains: | Does not contain any. |
| R-phrases: | not required |
| S-phrases: | 22 do not inhale dust 26 In case of eye contact, immediately rinse thoroughly with water and consult a doctor. 37/39 Wear suitable protective gloves and goggles. |
| Information on labelling: | The product is not subject to labelling requirements. |
| EU regulations: | none known |
| <u>National regulations</u> Water hazard class: | Not hazardous to water, classification according to VwVwS (Administrative Regulation on Substances Hazardous to Water), Attachment 4. |
| Technical instructions on Air Quality Control (TA-Luft): | Ingredients not specifically mentioned. |
| Hazard incident (reporting ordinance (12. BImSchV) Solvents ordinance (31. BImSchV): | Ingredients not specifically mentioned. |
| Chemicals prohibition ordinance (CPO): | Ingredients not specifically mentioned. |
| Relevant technical regulations for hazardous substances: | None known, since it contains no hazardous substances. |
| Occupational restrictions: | none known |

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Miscellaneous: Not subject to the volatile organic compounds (VOCs) directive.

International regulations: All Glass beads ingredients are TSCA (Toxic Substance Control Act) listed.

16 . Other information

Supporting EU directives: none known

Application restrictions recommended by manufacturer: Only for industrial use.

Other notice: The information in this safety data sheet is based on the best of our knowledge at the time of going to print. The information should provide you with guidelines on the safe handling and use of the product mentioned in this safety data sheet with regard to storage, processing, transport and disposal. The information cannot be transferred to other products.

Insofar as the product mentioned in this safety data sheet is combined, mixed or processed with other materials, or subjected to a processing procedure, the information in this safety data sheet, insofar as something else does not expressly result from this, cannot be transferred to the new material produced this way.

Amendments compared with the last version: Adjustment in compliance with REACH Regulation (EC) No. 1907/2006.

Safety data sheet issuing division: Product stewardship Kerstin Otto; e-mail: k.otto@joke.de