

# SAFETY DATA SHEET



(According to regulation (EC) No.1907/2006)

## PRODUCT IDENTIFICATION: **GB25KG GLASS BEADS FOR SHOT BLASTING (25KG TUB)**

### 1. SUPPLIER

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### 2. APPLICATION

Mineral blasting abrasive for industrial use.

### 3. COMPOSITION/INFORMATION OF INGREDIENTS

**Characteristic chemical data of the product.**  
GLASS.

**EINECS**  
266-046-0

**CAS NO:**  
65997-17-3

**Hazardous Ingredients:** Contains no hazardous ingredients.

**Chemical composition:**

Silicon Dioxide	SiO <sub>2</sub>
Sodium oxide	Na <sub>2</sub> O
Calcium oxide	CaO
Magnesium oxide	MgO
Aluminium oxide	AL <sub>2</sub> O <sub>3</sub>
Potassium oxide	K <sub>2</sub> O

**Typical Content:**

70 - 75%
12 - 15%
7 - 12%
approx. 5%
approx. 2.5%
approx. 1.5%

**Substances with specified EC threshold values:** Contains no substances with specified EC threshold values.

### 4. POTENTIAL HEALTH HAZARDS

**Hazards Identification:**

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

**Special hazard notices for humans and the environment:** Potential dust load in case of respirable dust.

### 5. FIRST AID MEASURES

**General information:**

Seek medical advice at the occurrence of a health disorder.

**After inhalation:**

Ensure supply of fresh air. Consult a doctor in case of irritation of the respiratory tract

**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 ten 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.

### 6. FIRE-FIGHTING MEASURES

**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 itself, its combustion products or resulting gases:** None known.

**Special protective equipment for fire fighting:** None known.

**Addition information:**

None known.

### 7. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:**

Avoid dust formation. Adhere to safety measures under points 8 and 9. Round grains on floor cause a bigger risk of skidding

**Environmental Precautions:**

None known.

**Methods for cleaning up:**

Collect mechanically and dispose of according to regulations.

**Addition information:**

None known.

### 8. HANDLING AND STORAGE

**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 container vessels:** No special requirements.

**VCI storage class:** Storage class 13 (non-combustible solids)

**Specific uses:** Glass beads are used for the manufacture of or use as blasting or grinding grit.

## 9. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### Workplace exposure limits and/or biological limits. Workplace exposure limits (WEL) for inhalable dust.

Inhalable dust 10mg/m<sup>3</sup>  
Respirable dust 3mg/m<sup>3</sup>  
Each with excess factor 4 according to TRGS 901-96 (Technical regulations for hazardous substances)

**Occupational exposure limits (OEL) of 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 glass beads are not a hazardous substance, only the generally applicable dust threshold limit values are applied. Nevertheless, please take note of TRGS402 and TRGS900.

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

**Respiratory protection:** Generally no respiratory protection is needed. In case of inadequate ventilation or exceeding of the workplace exposure limits an FFP (filtering face piece) protective half mask must be worn 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.

**Industrial hygiene measures:** The minimum standards for safety measures in the handling of working materials are contained in TRGS 500. Do not eat, drink or smoke 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 sections 7 and 8. No measures over and above required.

## 10. PHYSICAL & CHEMICAL PROPERTIES

**Form:** Round.  
**Physical State:** Solid.  
**Colour:** White - Transparent.  
**Odour:** 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/cm<sup>3</sup>.

**Expiry time:** Not relevant.

**Solubility in water:** Not water soluble.

**ph value:** Not applicable.

**Boiling point:** Not applicable.

**Flashpoint:** Not determined since product is not flammable.

**Melting point:** approx 730°C.

**Ignition temperature:** Not determined since product is not flammable.

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

## 11. STABILITY & 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, no hazardous decomposition products are to be expected.

## 12. TOXICOLOGICAL INFORMATION

### Toxicokinetics, metabolism and distribution:

According to the BGIA (Institute for occupational Safety and Health) Expert opinion 2009/21597/9311 of 29/04/2009 mat-loe, the product Glass Beads does not contain any silicogenic, toxic or carcinogenic components.

**Acute Toxicity, irritability and cauterization:** 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 are not known for toxicity.

**CRM effects (carcinogenic, mutagenic and reprotoxic effects):** According to the 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 > 5000mg\*kg (rats, oral).

### 13. ECOLOGICAL INFORMATION

**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.

**Bioaccumulation potential:** No data available. A concentration in organic material is rather improbable.

**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.

### 14. DISPOSAL CONSIDERATIONS

**Substance/preparation:** Glass beads

**Recommendation:** Contact original supplier about recycling of used glass beads.

**Disposal code according to the Waste Catalogue Ordinance:** 120117 blasting abrasive wastes with the exception of those that fall under 120116.

**Packaging / contaminated packaging:** Packaging with Glass Beads residue in the paper bag can be recycled.

**Cleaned packaging:** Cleaned packaging can be used again or be recycled.

### 15. TRANSPORT INFORMATION

**Land Transport ARD/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.

### 16. REGULATORY INFORMATION

**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.

**NATIONAL REGULATIONS.**

**Water hazard class:** Not hazardous to water, classification according to VwVwS (Administrative Regulation on Substances Hazardous to water).

**Technical Instructions on Air Quality Control (TA luft) :** Ingredients not specifically mentioned.

**Hazardous incident (reporting) ordinance (12.BImSchV):** Ingredients not specifically mentioned.

**Solvents ordinance (31.BImSchV):** Ingredients not specifically mentioned.

**Chemicals prohibition ordinance (CPO):** Ingredients not specifically mentioned.

**Relevant technical regulations for hazardous substances:** None, since it contains no hazardous substances

**Occupational restrictions:** None known.

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

**International regulations:** All glass bead ingredients are TSCA (Toxic Substances Control Act ) listed.

## 17. OTHER INFORMATION

**Supporting EU Directives:** Not known.

**Application restrictions recommended by manufacturer:** Only for Industrial use.

**Other notices:**

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:** Adjustments in compliance with REACH Regulation (EC) No. 1907/2006

**Safety Data sheet issuing division:** Sealey Power Products

**The information in this document is based on our present knowledge. However, it does not constitute a guarantee for any product properties and does not establish a legally valid contractual arrangement.**