

Product Trade Name: Glass Beads (Metroblast) PAGE 1/6

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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name Glass Beads Soda – line silicate glass without free silica.

Details of the supplier of the safety data sheet
Supplier Metrodent Limited

Lowergate Works, Lowergate Paddock, Huddersfield United Kingdom +44 1484 461616 sales@metreodent.com

Emergency contacts

Office Hours Metrodent Limited

+44 1484 461616

Recommended intended purpose(s)

Dental

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients (Mean values)

\* not silicogenic resp. crystalline

Chemical Characterisation Glass
EINECS 266-046-0
CAS No. 65997-17-3

(1) REACH Registration No.

(2) CLP Notification No. Not subject to REACH Regulation

Classification according to CLP
Regulation (EC) No. 1272/2008
Hazard classes/hazard categories
Hazard statements
-

Substance 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 for 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

Substances with prescribed EC exposure limits

Does not contain substances with EC exposure limits.

## 3. HAZARDS IDENTIFICATION

Classification Not applicable

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.

Other hazards Not known



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### 4. FIRST AID MEASURES

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

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 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 water. Do not induce vomiting. If you feel unwell, seek medical

advice.

Most important symptoms and effects, both acute and delayed - Not known

Indication of any immediate medical attention and special treatment needed - Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

Extinguishing media Suitable extinguishing media

Product does not burn. Match extinguishing measure to ambient situation.

Unsuitable extinguishing media

Not known

Special hazards arising from the product

Not known

Advice for fire fighters Match the fire fighting measures to the environmental conditions.

Additional information 

Not known

## 6. Accidental release measures

Personal precautions Avoid dust formation. Round grain on the ground increases risk of slipping.

Environmental protection measures

Not known

Methods and materials for containment and cleaning up

Pick up mechanically and dispose of properly.

Reference to other sections

Refer to protective measures in sections 7 and 8.

## 7. Handling and storage

Precautions for safe handling

Information on safe handling

Avoid dust formation

Information on fire and explosive protection. No special fire protection measures are necessary.

Additional information 

Not known

Conditions for safe storage, including any incompatibilities

Information on storage conditions

Always store product in dry conditions.

Requirement for storage rooms and containers

No special requirements needed.

Storage class VCI LGK 13 (non-combustible solids)

Specific end uses

Glass Beads – GP are used for the manufacture of or use of blasting or grinding abrasives.



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### 8. Exposure controls/personal protection

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 – GP 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 worn (FFP filtering half mask depending on the existing concentration).

Hand protection

Glove material: Leather

Eye protection

Tight-sealing protective eyewear (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 required.

Information on industrial hygiene

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 protective measures

See sections 6 and 7; no further action is required.

### 9. Physical and chemical properties

Appearance round Physical state solid

Colour white-transparent

Odour odourless

Safety data

Explosion hazard The product itself is not explosive; however, formation of explosive air/dust mixtures

is possible.

Lower explosion limit not known Upper explosion limit not known Vapour pressure not relevant Specific gravity approx. 2.5g/cm3 not relevant Flow time insoluble in water Water solubility pH value not applicable Boiling point/range not applicable

Flash point not determined as product is not flammable

Melting point approx. 730°C

Ignition temperature not determined as product is not flammable

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



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### 10. Stability and reactivity

Reactivity Glass Beads – GP are non-reactive and do not change with proper handling and storage.

Chemical stability Glass Beads – GP are chemically stable and do not change with proper handling and storage.

Possibility of hazardous reactions

No hazardous reactions known.

Hazardous decomposition products

No known hazardous decomposition products.

### 11. Toxicological information

According to current IFA 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

Irritation

Corrosivity

No data on the product available

Repeated dose toxicity

No known toxicity of Glass Beads – GP.

CMR effects (carcinogenic, mutagenic and toxic to reproduction)

No carcinogenic effect according to IFA report.

Summarised evaluation of the CMR properties

No known CMR properties

Practical experience (relevant for classification and other observations)

No data on the product available

Carcinogenicity No known carcinogenicity of Glass Beads – GP.

Mutagenicity No data on the product available Reproductive toxicity No data on the product available

Other information Not known

### 12. Ecological information

Toxicity No know effects

Ecotoxicity For Glass Beads – GP no environmental problems are to be expected when handled and used

properly.

Fish toxicity

Aquatic invertebrates

Harmful effects for aquatic organisms are not expected.

Persistence and degradability

Based on current experience, this product is inert.

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

Mobility in soil Potential not known

Results of PBT and vPvB assessment

Not relevant. The substances in this product do not meet the criteria for classification as PBT or

vPvB.

## 13. Disposal considerations

Product Glass Beads - GP. If recycling is not possible, waste must be disposed of in compliance with

national and local regulations. Confirm the exact waste code with disposer.

Waste Code according to European Waste Catalogue (EWC)

12 01 17 waste blasting material other than those mentioned in 12 01 16

Packaging National and local regulations must be followed.

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



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## 14. Transport information

Glass Beads - GP are not dangerous goods.

## 15. Regulatory information

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

EU Regulations Not Known

National regulations

Water hazard class Not hazardous to water; classification according to VwVwS, Annex 4.

Technical instruction on air quality (TA-Luft)

Substances not mentioned by name.

Hazardous Incident Ordinance (12. BImSchV[German Federal Immission Control Ordinance])

Substance not mentioned by name.

Solvents Ordinance (31. BlmSchV [German Federal Immission Control Ordinance])

Substances not mentioned by name.

Chemical Prohibition Ordinance

Substances not mentioned by name.

Relevant Technical Rules for Hazardous Substances

Contains no hazardous substances.

Employment Restrictions Not known

Miscellaneous Glass Beads – GP are not subject to the VOC Regulation. International Regulations All Glass Beads – GP ingredients are listed with TSCA.

Chemical safety assessment - Not relevant

### 16. Other information

Further applicable EC directives - Not 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

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 (ChemVOFarbV)

Hazard statements, referred to in section 2 and 3

According to Regulation (EC) No. 1272/2008:

None



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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 Substance Hazardous to Water