Voluntary product information for blasting abrasives based on the format of the safety data sheet of the REACH Regulation (EC) No. 1907/2006

1. Identification of the product and the company/undertaking

1.1 Product identifier
Glass Beads - GP

1.2 Use of the product
Mineral blasting abrasive for industrial use

1.3 Details of the supplier of the voluntary product information

Manufacturer / supplier
Kuhmichel Abrasiv GmbH

Street address / PO Box
Am Rosenbaum 22

Country code / postal code / city
40882 Ratingen, Germany

Phone / fax / email
+49 2102 93979-27 / +49 2102 93979-40 / kerstin.knein@kuhmichel.com

1.4 Emergency phone number
Phone +49 2102 93979-99 (during normal office hours)

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

	Ingredients (Mean values)
Silicon dioxide* (SiO_2)	70.00 - 75.00%
Sodium oxide (Na_2O)	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 oxide (K_2O)	max. 1.50%

* not silicogenic resp. crystalline

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	65997-17-3	Not subject to REACH-Regulation.	-/-	-/-

Substances listed on the so-called 'Candidate List of **S**ubstances of **V**ery **H**igh **C**oncern (**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

Substances with prescribed EC exposure limits
Does not contain substances with EC exposure limits.

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 symptomatically

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

6. Accidental release measures

6.1 Personal precautions

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

6.2 Environmental protection measures

Not known

6.3 Methods and materials for containment and cleaning up

Pick up mechanically and dispose of properly.

6.4 Reference to other sections

Refer to protective measures in sections 7 and 8.

Additional information
Not known

7. Handling and storage

7.1 Precautions for safe handling

For safety reasons, it is recommended to use a protective sieve during filling.

Information on safe handling
Avoid dust formation

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

Additional information
Not 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
No special requirements needed.

Storage class VCI
LGK 13 (non-combustible solids)

7.3 Specific end uses
Glass Beads - GP are used for the manufacture of or use as blasting or grinding abrasives.

8. Limitation and monitoring of exposure/personal protective equipment

8.1 Control parameters

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

Occupational Exposure Limits (OEL) in Germany for dusts

Inhalable fraction (E)	10 mg/m³
Respirable fraction (A)	1.25 mg/m³

with exceeding factor 2 each, ref. TRGS 900

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- 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) 402 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 is 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 protection measures
See sections 6 and 7; no further action is required.

9. Physical and chemical characteristics

9.1 Information on basic physical and chemical properties

Appearance

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. 2.5 g/cm³
Flow time	not relevant
Water solubility	insoluble in water
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.

9.2 Other information

None

10. Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

Glass Beads - GP are chemically stable and do not change with 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.

11. Toxicological information

11.1 Information on toxicological effects

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

No data on the product available

Irritation

No data on the product available

Corrosivity

No data on the product available

Sensitisation
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. Environmental information

12.1 Toxicity
No known effects

Ecotoxicity
For Glass Beads - GP 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 Other harmful effects
Not known

13. Disposal considerations

13.1 Waste treatment methods

13.1 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 the disposer.

Waste Code according to European Waste Catalogue (EWC)
12 01 17 waste blasting material other than those mentioned in 12 01 16

Recommendation
Contact Kuhmichel Abrasiv 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 - GP residues can be recycled.

Cleaned packaging
Packaging can be reused after being cleaned or recycled.

14. Transport information

Glass Beads - GP are no dangerous good.

15. Regulatory information

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

EU Regulations
Glass Beads - GP are not subject to the Regulation 722/2012/EU (ADI-Free).

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])
Substances not mentioned by name.

Solvents Ordinance (31. BImSchV [German Federal Immission Control Ordinance])
Substances not mentioned by name.

Chemicals 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.

15.2 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
2018-07-17 Advice Protective sieve
2018-08-01 Regulation 722/2012/EU

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 and 3 according to Regulation (EC) No. 1272/2008:
None

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
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

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