

SAFETY DATA SHEET according to 1907/2006/EC

Trade name: GLASS BEADS

Issue date: 01.07.2012

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

- 1.1 Trade name: **GLASS BEADS**
- 1.2 Use of the substance/preparation: Blasting abrasive for mechanical surface treatment
- 1.3 Company identification:
- A) Supplier**
- AMPECO GmbH
Poststrasse 5
46535 Dinslaken
Germany
- Contact person: Matthias Krakow
Phone: +49 172 7942485
e-mail: matthias.krakow@ampeco.de

2 Potential hazards:

- 2.1 Hazards to humans and the environment (R-phrases):
– No hazards to humans and the environment in as-delivered condition –
- 2.2 Other information:
When using abrasives, mineral dust can occur which poses a risk to health.

3 Composition/information on ingredients:

- 3.1 Chemical composition:
Soda-lime glass (A-glass) (window glass)
- | | |
|--------------------------------|-------------|
| SiO ₂ | min. 65 % |
| Al ₂ O ₃ | 0,5 - 2 % |
| Fe ₂ O ₃ | max. 0,15 % |
| MgO | min. 2,5 % |
| CaO | min. 8 % |

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Na₂O min. 14 %
(Approximate values)

- | | | |
|-----|------------------------|-----------------------------------|
| 3.2 | EINECS No.: | Not applicable |
| 3.3 | CAS No.: | Not applicable |
| 3.4 | Hazardous ingredients: | contains no hazardous ingredients |
| 3.5 | Other information: | None |

4 First aid measures:

- | | | |
|-----|----------------------|---|
| 4.1 | Skin contact: | No special measures required. |
| 4.2 | Eye contact: | Occasionally grains can be restrained by the eye fluid. In case of eye irritation, rinse the opened eyes with plenty of water for 15 minutes. In case of persistent problems consult an eye specialist. |
| 4.3 | Ingestion: | No reactions known. Rinse mouth and drink plenty of water. Do not induce vomiting. In case of bodily harm or discomfort consult a doctor. |
| 4.4 | Inhalation: | Provide enough fresh air and seek medical attention. |
| 4.5 | Advice to physician: | The abrasive may cause irritation of cornea and conjunctiva. Treat symptomatically. |

5 Fire fighting measures:

Material does not burn. Use extinguishing measures to suit surroundings

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6 Accidental release measures:

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|-----|------------------------------------|---|
| 6.1 | Personal safety precautions: | Avoid dust formation. Risk of slipping because of the round grain shape. |
| 6.2 | Measures for cleaning up: | Collect mechanically and moisten if necessary. Store in suitable container and dispose of properly. |
| 6.3 | Environmental protection measures: | Not applicable |

7 Handling and storage:

- | | | |
|-----|---|--|
| 7.1 | Handling: | Avoid dust formation. Where appropriate, provide ventilation and turn suction. |
| 7.2 | Information on protection against explosion and fires: | Not applicable |
| 7.3 | Storage requirements: | Store dry. |
| 7.4 | Information about storage in one common facility: No restrictions | |
| 7.5 | Storage class: | 13; non-flammable solid |

8. Exposure controls / personal protection:

- | | | |
|-----|--------------------------------|---|
| 8.1 | Exposure limits: | Not applicable |
| 8.2 | Personal protective equipment: | |
| | 8.2.1 Breathing equipment: | Use class FFP2 dust respirator. |
| | 8.2.2 Hand protection: | Wear protective gloves. |
| | 8.2.3 Eye protection: | Wear safety glasses. |
| | 8.2.4 Body/skin protection: | Wear protective dust suit. |
| | 8.2.5 Hygiene measures: | Change clothes after using glass beads. Clean skin with warm water and pH-neutral soap. Do not eat, drink or smoke. |

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8.2.6 Other information: Keep protective clothing separate from street clothes. Follow relevant safety instructions when working with abrasives.

9. Physical and chemical properties: (values and units as per Directive 67/548/EC)

9.1. Appearance	
9.1.1 Physical state and shape:	Round grain, powdery-globular
9.1.2 Colour:	colorless, clear , transparent
9.1.3 Odour:	None
9.2 Safety-relevant data	
9.2.1 Boiling point/boiling range:	Not applicable
9.2.2 Change in state:	Melting point/melting range approx. 630 °C
9.2.3 Flash point:	Not applicable
9.2.4 Flammability:	Not self-igniting
9.2.5 Ignition temperature:	Not applicable
9.2.6 Auto-flammability:	Not applicable
9.2.7 Oxidizing properties:	None
9.2.8 Explosive properties:	Not applicable
9.2.9 Explosion limits:	Not applicable
9.2.10 Vapour pressure:	Not applicable
9.2.11 Density:	approx.. 2,5 g/cm ³
9.2.12 Solubility:	insoluble
9.2.13 Solubility in water:	Not determined
9.2.14 Solubility in fat:	Not determined
9.2.15 Partition coefficient:	Not determined
9.2.16 pH:	11-12
9.2.17 Solvent content:	Not applicable
9.2.18 Solvent separation test:	Not applicable
9.2.19 Viscosity:	None

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10 Stability and reactivity:

10.1	Thermal decomposition:	Not applicable
10.2	Hazardous reactions:	None known
10.3	Hazardous decomposition products:	None known

11 Toxicological information:

11.1	Acute effects/toxicity (LD50/LC50):	Not applicable
11.2	Sensitization:	Not applicable
11.3	Irritant and corrosive properties:	Dust in concentrations exceeding the maximum recommended values may cause irritations to eyes and respiratory system.
11.4	Long-term exposure effects:	None
11.5	CMR effects:	None known
11.6	Practical experience:	None known
11.7	Other information:	Refer to numeral 2.2 above.

12 Ecological information:

12.1	Environmental hazard classification according to hazard symbol "N":	Not applicable
12.2	Information on elimination:	Not applicable

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- | | | |
|------|---|---|
| 12.3 | Ecotoxicity (e.g. impact on sewage treatment plants): | Not applicable |
| 12.4 | Other ecological Information: | |
| | 12.4.1 COD: | Not applicable |
| | 12.4.2 BOD: | Not applicable |
| | 12.4.3 AOX: | According to the composition, contains no AOX |
| 12.5 | Other information: | Poses no hazard to water. |

13 Disposal considerations:

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|------|--|---|
| 13.1 | Waste code number according to AVV: | EAK 10 11 05 |
| 13.2 | Waste description: | Particulates and dust from the production of glass and glass products |
| 13.3 | Recommendations for disposal of packaging: | None |
| 13.4 | Other information: | The unused product can be disposed of in compliance with the legal regulations under the above-named AVV waste code number. |

14 Transport information:

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|------|---------------------------------------|---|
| 14.1 | Land transport ADR/RID and GGVS/GGVE: | Not classified as hazardous material. |
| 14.2 | Sea transport IMDG/GGVSEE: | Not classified as hazardous material. |
| 14.3 | Air transport ICAO-TI and IATA-DGR: | Not classified as hazardous material. |
| 14.4 | Other information: | The unused product is not considered a hazardous material for transport by any mode of transport and is not subject to transport regulations. |

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15 Regulatory information:

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|--------|--|--------------------------|
| 15.1 | Labelling according to Directive 67/584/EEC and GefStoffV: | Not applicable |
| 15.2 | R-phrases | Not applicable |
| 15.3 | S-phrases | Not applicable |
| 15.4 | Special labelling of certain preparations: | Not applicable |
| 15.5 | National regulations: | Not applicable |
| 15.5.1 | Information on restrictions of occupation | |
| 15.5.2 | German statutory order on hazardous incidents (StörfallV): | Not applicable |
| 15.5.3 | Classification according to German statutory order on flammable liquids (VbF): | Not applicable |
| 15.5.4 | German clean air directive (TA Luft): | Not applicable |
| 15.5.5 | Water hazard class: | Poses no hazard to water |
| 15.5.6 | Restrictions and statutory orders: | None |

16 Other information:

- 16.1 The information provided in this Safety Data Sheet is correct to the best of our knowledge and information at the date of its publication. The information are not meant to assure certain characteristics.