

SAFETY DATA SHEET according to 1907/2006/EC

Trade name: VITROBLAST

Issue date: 01.10.2013

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

1.1	Trade name:	VitroBlast®
1.2	Use of the substance/preparation:	Blasting abrasive for mechanical surface treatment
1.3	Company identification:	
	A) Supplier	B) Producer
	AMPECO GmbH Poststrasse 5 46535 Dinslaken Germany	Reidt GmbH & Co. KG Zweifaller Str. 198 52224 Stolberg (Rheinland) Germany
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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 (broken container, hollow or flat glass, colorful)

SiO ₂	50–82 %
Al ₂ O ₃	max. 17 %
MgO	max. 4 %
K ₂ O	max. 7 %
CaO	max. 25 %

SAFETY DATA SHEET according to 1907/2006/EC

Trade name: VITROBLAST

Issue date: 01.10.2013

Na₂O max. 15 %
BaO max. 10 %
B₂O₃ max. 15 %
Other max. 12 %
(Approximate values as natural product.)

- 3.2 EINECS No.: 262-373-8
- 3.3 CAS No.: 60676-86-0
- 3.4 Hazardous ingredients: Not applicable
- 3.5 Other information: None

4 First aid measures:

- 4.1 Skin contact: Clean skin for 10 minutes under running water.
- 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, non-toxic. Rinse mouth with water. Swallowing of large amounts can cause bodily harm or discomfort. In this case, consult a doctor.
- 4.4 Inhalation: The high dust exposure may cause irritation of the lungs. Provide enough fresh air and seek medical attention. Large amounts of blasting medium can block the airways.
- 4.5 Advice to physician: The abrasive may cause irritation of cornea and conjunctiva.

SAFETY DATA SHEET according to 1907/2006/EC

Trade name: VITROBLAST

Issue date: 01.10.2013

- 5 Fire fighting measures:** Material does not burn. Use extinguishing measures to suit surroundings
- 6 Accidental release measures:**
- 6.1 **Personal safety precautions:** Avoid dust formation. Wear dust masks / filter and safety glasses
- 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
- 6.4 **Other information:** None
- 7 Handling and storage:**
- 7.1 **Handling:** Avoid dust formation. Where appropriate, provide ventilation / dedusting.
- 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
- 7.6 **Other information:** None

SAFETY DATA SHEET according to 1907/2006/EC

Trade name: VITROBLAST

Issue date: 01.10.2013

8. Exposure controls / personal protection:

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|-----|--------------------------------|---|
| 8.1 | Exposure limits: | Chemical: glass dust
Value: 3 mg / m ³ (A) respirable fraction;
10 mg / m ³ (E) inhalable Fraction.
Monitoring procedures: according to TRGS 900 |
| 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, safety boots. |
| | 8.2.5 Hygiene measures: | Change clothes after using VitroBlast®. Clean skin with warm water and pH-neutral soap. Do not eat, drink or smoke. |
| | 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)

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|------|------------------------------------|---------------------------------------|
| 9.1. | Appearance | |
| | 9.1.1 Physical state and shape: | Solid, angular particles or powder |
| | 9.1.2 Colour: | multicolored: colorless, green, brown |
| | 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: | Softening approx. 550 °C |
| | 9.2.3 Flash point: | Not applicable |
| | 9.2.4 Flammability: | Not applicable |
| | 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 |

SAFETY DATA SHEET according to 1907/2006/EC

Trade name: VITROBLAST

Issue date: 01.10.2013

9.2.9 Explosion limits:	Not applicable
9.2.10 Vapour pressure:	Not applicable
9.2.11 Density:	approx. 1,0 – 1,6 g/cm ³
9.2.12 Solubility:	insoluble
9.2.13 Solubility in water:	low
9.2.14 Solubility in fat:	Not determined
9.2.15 Partition coefficient:	Not determined
9.2.16 pH:	max. pH 11, depending on the particle size
9.2.17 Solvent content:	Not applicable
9.2.18 Solvent separation test:	Not applicable
9.2.19 Viscosity:	Not determined

10 Stability and reactivity:

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

11 Toxicological information:

11.1 Acute effects/toxicity (LD50/LC50):	None-toxic
11.2 Sensitization:	None known
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:	No known effects in long-term or repeated exposure.

SAFETY DATA SHEET according to 1907/2006/EC

Trade name: VITROBLAST

Issue date: 01.10.2013

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| 11.5 | CMR effects: | None |
| 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 |
| 12.3 | Ecotoxicity (e.g. impact on sewage treatment plants): | Glass powder can form with water alkaline solutions up to pH 11, depending on concentration, particle size and exposure time. |
| 12.4 | Other ecological information: | |
| | 12.4.1 COD: | Not applicable |
| | 12.4.2 BOD: | Not applicable |
| | 12.4.3 AOX: | Not applicable |
| 12.5 | Other information: | Poses no hazard to water, non-volatile, insoluble in 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 |

SAFETY DATA SHEET according to 1907/2006/EC

Trade name: VITROBLAST

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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:

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.

15 Regulatory information:

15.1 Labelling according to Directive
67/584/EEC and GefStoffV: Not applicable

15.2 R-phrases Not applicable

15.3 S-phrases

S2 Keep out of the reach of children.
S24/25 Avoid contact with eyes and skin
S26 In case of contact of eyes,
immediately rinse thoroughly with
water and seek medical advice.
S37/39 Wear suitable gloves, glasses and
face protection.

SAFETY DATA SHEET according to 1907/2006/EC

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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. Glass is in supplement II (no. 11) of the REACH Regulation (EC) No. 987/2008 listed. The product VitroBlast® as glass granules or glass powder is therefore not subject to registration.

Citation: Safety Data Sheet Reidt GmbH & Co. KG

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