

**Material Safety Data Sheet**

| Section 1 - Product and Manufacturer Identification  |   |            |                |        |
|--|---|------------|----------------|--------|
| 1.1 Product Identity:  | Borosilicate Glass 3.3  |            |                |        |
| 1.2 Product Name:  | VitraPOR Borosilicate Glass, Spheres, Beads, Frit, Ribbons, Discs, Rods   |            |                |        |
| 1.3 Manufacturer Name:   | ROBU Glasfilter-Geraete GmbH<br>Schuetzenstrasse 13<br>57644 Hattert<br>Germany   |            |                |        |
| 1.4 Telephone Number:  | +49 - 2662 - 800 40<br>Office hours are Monday - Friday from 8:00 am to 5:00 pm (CET / CEST)  |            |                |        |
| Section 2 - Hazards Information  |   |            |                |        |
| 2.1 Emergency Overview:  | None  |            |                |        |
| 2.2 OSHA Regulatory Status:  | None  |            |                |        |
| 2.3 Potential Health Effects:  | Glass and nuisance dust may cause temporary respiratory and/or eye irritation.<br>Possible contact dermatitis.<br>Slipping hazard can be present when spilled on floor. |            |                |        |
| 2.4 Potential Environmental Effects:   | None  |            |                |        |
| Section 3 - Composition  |   |            |                |        |
| 3.1 Information on Ingredients:  | Chemical Name   | CAS #      | EINECS(ELINCS) | WT%    |
|  | Glass, oxide & Chemicals  | 65997-17-3 | 266-046-0      | ≤100%  |
| Section 4 - First Aid Measure  |   |            |                |        |
| 4.1 Flush irritated eye with water or commercial eyewash. If unable to remove dust or beads by this method, seek medical care. For respiratory irritation, remove victim to well-vented area. Seek medical care if this does not alleviate the condition. Thorough cleansing reduces contact dermatitis. |   |            |                |        |
| Section 5 - Fire-Fighting Measures   |   |            |                |        |
| 5.1 Not applicable; Not a fire hazard.   |   |            |                |        |
| Section 6 - Accidental Release Measures  |   |            |                |        |
| 6.1 Vacuum or sweep up spilled material to prevent slipping hazards.   |   |            |                |        |
| Section 7 - Handling And Storage   |   |            |                |        |
| 7.1 No special precautions are needed, but gloves reduce the chance of contact dermatitis, glasses reduce possibility of eye irritation, and a dust mask reduces the effects of nuisance dust.   |   |            |                |        |
| 7.2 Store in ambient conditions.   |   |            |                |        |
| Section 8 - Exposure Controls and Personal Protection  |   |            |                |        |
| 8.1 Exposure Guidelines:   | Component   | OSHA PEL   | ACGIH TLV      | Unit   |
|  | Nuisance dust (>5µm)  | 15         | 10             | mg/m 3 |
|  | Nuisance dust (<5µm)  | 5          | 5              | mg/m 3 |
| 8.2 Engineering Controls:  | Adequate ventilation  |            |                |        |
| 8.3 Personal Protective Equipment:   | Safety glasses and Dust mask  |            |                |        |

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|---|---|---------------------------|---------------------------------|----------------------------------|
| Section 9 – Physical and Chemical Properties  |   |                           |                                 |                                  |
| 9.1 Borosilicate glass beads appear to be white in color, are tasteless and odorless. |   |                           |                                 |                                  |
| 9.2 No important health, safety or environmental information is available.            |   |                           |                                 |                                  |
| 9.3 Physical Properties   |   |                           |                                 |                                  |
| Non-soluble in water  | Specific Gravity<br>2.23 g/cm 3   | Softening Point<br>820 °C | Boiling Point<br>Not applicable | Vapor Pressure<br>Not Measurable |
| Section 10 - Stability and Reactivity   |   |                           |                                 |                                  |
| 10.1 Conditions to Avoid:   | Not Applicable  |                           |                                 |                                  |
| 10.2 Materials to Avoid:  | Breakdown only occurs in very strong acids and bases such as Hydrofluoric Acid and Sodium Hydroxide   |                           |                                 |                                  |
| 10.3 Hazardous Decomposition:   | Not Applicable  |                           |                                 |                                  |
| Section 11 - Toxicological Information  |   |                           |                                 |                                  |
| 11.1 Possible Routes of Exposure:   | Inhalation is not likely for materials >5µm in diameter<br>Ingestion is possible if good hygiene practices are not followed<br>Eye Irritation<br>Skin contact may result in contact dermatitis                                |                           |                                 |                                  |
| Section 12 - Ecological Information   |   |                           |                                 |                                  |
| 12.1 Not Applicable   |   |                           |                                 |                                  |
| Section 13 - Disposal Considerations  |   |                           |                                 |                                  |
| 13.1 Glass beads can be disposed of in a standard solid-waste landfill.               |   |                           |                                 |                                  |
| Section 14 - Transport Information  |   |                           |                                 |                                  |
| 14.1  | Class 55; Item Number 87660   |                           |                                 |                                  |
| 14.2 Proper Shipping Name:  | Glass   |                           |                                 |                                  |
| Section 15 - Regulatory Information   |   |                           |                                 |                                  |
| 15.1 Not Applicable   |   |                           |                                 |                                  |
| Section 16 - Other Information  |   |                           |                                 |                                  |
| 16.1 Disclaimer:  | The information and recommendations herein are based upon data believed to be correct for material as shipped. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to this information. |                           |                                 |                                  |

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