

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.01.2017


Version number 2

Revision: 16.01.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** SHERAVEST RP
- **Registration number** SDB20232A
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**
No further relevant information available.
- **Application of the substance / the mixture:** Investment for rapid prototyping.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
SHERA Werkstoff-Technologie GmbH & Co. KG
Espohlstraße 53
D-49448 Lemförde
GERMANY
sdb@shera.de
- **Further information obtainable from:** Department of product security.
- **1.4 Emergency telephone number:**
+49 5443 9933-0 This number is serviced during office hours.
Opening times: Monday to Thursday from 8 am . 5 pm, Friday from 8 am . 3 pm.

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008:**
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalation.
 - **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008:**
The product is classified and labelled according to the CLP regulation.
 - **Hazard pictograms:**
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GHS08
- **Signal word:** Warning
 - **Hazard-determining components of labelling:**
Quartz (SiO₂)
cristobalite
 - **Hazard statements:**
H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalation.
 - **Precautionary statements:**
P260 Do not breathe dust.
P285 In case of inadequate ventilation wear respiratory protection.
P270 Do not eat, drink or smoke when using this product.
P314 Get medical advice/attention if you feel unwell.
P501 Dispose of contents / container in accordance with local / regional / national / international regulations.
 - **Information concerning particular hazards for human and environment:**
Contains quartz. Do not breathe dust. May cause lung injury (silicosis / lung cancer). Wear protection mask.
 - **2.3 Other hazards**
 - **Results of PBT and vPvB assessment:**
 - **PBT:** Not applicable.

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- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO ₂) STOT RE 2, H373	50-90%
CAS: 14464-46-1 EINECS: 238-455-4	crystalite STOT RE 2, H373	1-20%
CAS: 1309-48-4 EINECS: 215-171-9 Index number: 025-199-09-0	magnesium oxide substance with a Community workplace exposure limit	1-20%

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
Take affected persons out into the fresh air.
Position and transport stably in side position.
In case of troubles or persistent symptoms, consult an medical.
- **After inhalation:**
Take affected persons into fresh air and keep quiet.
In case of irregular breathing or respiratory arrest provide artificial respiration.
Call a doctor immediately.
- **After skin contact:** Wash with water and soap.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
In case of troubles, consult an medical.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media** The product itself does not burn.
- **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fire with alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

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SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Avoid formation of dust.
Wear respiratory protection.
- **6.2 Environmental precautions**
Do not allow to penetrate the ground / soil.
Do not allow to enter sewers / surface or ground water.
- **6.3 Methods and material for containment and cleaning up**
Avoid generation of dust.
Pick up mechanically.
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Do not breathe dust.
Ensure good ventilation / exhaustion at the workplace.
Prevent formation of dust.
Keep receptacles tightly sealed.
Wash hands before breaks and at the end of work.
Do not eat, drink, smoke at the workplace.
Take off immediately all contaminated clothing.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
Keep container in a well-ventilated, cool and dry place.
Protect from moisture.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Storage class:** No information available.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

• **Ingredients with limit values that require monitoring at the workplace:**

14808-60-7 Quartz (SiO₂)	
MAK (Germany)	Alveolar fraction
14464-46-1 cristobalite	
MAK (Germany)	Alveolar fraction
1309-48-4 magnesium oxide	
WEL (Great Britain)	Long-term value: 10* 4** mg/m ³ (as Mg) *inhalable dust **fume and respirable dust

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AGW (Germany)	Long-term value: 1.25* 10** mg/m ³ 2(II);*Alveolar **Inhalable; AGS, DFG
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- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
- **Respiratory protection:**
Suitable respiratory protective device recommended.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product. Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
- **Material of gloves:**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Dust protection goggles.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Powder
Colour:	White
Odour:	Odourless
- **pH-value:** Not determined.
- **Change in condition:**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.
- **Flash point:** Not applicable.
- **Flammability (solid, gas):** Not determined.
- **Ignition temperature:** Not determined.
- **Decomposition temperature:** Not determined.
- **Auto-ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

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· Vapour pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Not determined.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	0.0 %
Solids content:	100.0 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No data available.
- **10.2 Chemical stability** No data available.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No data available.
- **10.4 Conditions to avoid** Moisture.
- **10.5 Incompatible materials** No further relevant information available.
- **10.6 Hazardous decomposition products**
While warming up the set investments in a preheating furnace fumes occur: ammonia.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** No data available.
- **Primary irritant effect:**
- **Skin corrosion/irritation** No data available.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** No data available.
- **Additional toxicological information:**
Contains quartz. Do not breathe dust. May cause lung injury (silicosis / lung cancer). Wear protection mask.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**
May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalation.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
The product may not be released into the environment without control.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:** Waste disposal according to official state regulations.
- **Waste disposal key:**
The waste disposal code as prescribed in the European Waste Catalogue (EWC) depends on the waste producer and can thus vary for a product. The waste disposal code should thus be obtained separately from the waste producer in each case.
- **European waste catalogue:**
According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.
- **Uncleaned packaging:**
- **Recommendation:** Dispose unclean packages in compliance with the local, official regulations.

SECTION 14: Transport information

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|--|-----------------|
| • 14.1 UN-Number | |
| • ADR, ADN, IMDG, IATA | Void. |
| • 14.2 UN proper shipping name | |
| • ADR, ADN, IMDG, IATA | Void. |
| • 14.3 Transport hazard class(es) | |
| • ADR, ADN, IMDG, IATA | |
| • Class | Void. |
| • 14.4 Packing group | |
| • ADR, IMDG, IATA | Void. |
| • 14.5 Environmental hazards: | |
| • Marine pollutant: | No. |
| • 14.6 Special precautions for user | Not applicable. |
| • 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |

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• UN "Model Regulation":	Void.
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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **National regulations:**
- **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on the state of knowledge and experience pertaining on the date of issue. The information is not to be taken as a guarantee of product properties and do not constitute the basis for a contractual legal relationship. The details must not be changed or transferred to other products. Duplication in an unchanged state is permissible.

- **Relevant phrases**
H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalation.
- **Department issuing SDS:** Department of product security.
- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
STOT RE 2: Specific target organ toxicity (repeated exposure) . Category 2
- *** Data compared to the previous version altered.**

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