

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 26.05.2026


Version number 3 (replaces version 2)

Revision: 26.05.2026

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

- **1.1 Product identifier**
- **Trade name:** SHERAREFRACT
- **Article number:** 203030
- **UFI:** WX50-30DE-800U-G4CS
- **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:** Manufacture of dental prothesis.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
SHERA Werkstoff-Technologie GmbH  
Espohlstraße 53  
D-49448 Lemförde  
GERMANY  
sdb@shera.de  
+ 49 (0) 54 43 - 9933 - 0
- **Further information obtainable from:** Department of product security.
- **1.4 Emergency telephone number:**  
Giftinformationszentrum-Nord +49 (0) 551-19240  
(Information in german or english)

### 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:**  
  
GHS08
- **Signal word:** Warning
- **Hazard-determining components of labelling:**  
Quartz (SiO<sub>2</sub>)
- **Hazard statements:**  
H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalation.
- **Precautionary statements:**  
P260 Do not breathe dust.  
P270 Do not eat, drink or smoke when using this product.  
P285 In case of inadequate ventilation wear respiratory protection.  
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.
- **vPvB:** Not applicable.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

#### · Dangerous components:

CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO <sub>2</sub> ) STOT RE 2, H373	40-90%
CAS: 1344-28-1 EINECS: 215-691-6 Reg.nr.: 01-2119529248-35	aluminium oxide substance with a Community workplace exposure limit	1-30%
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.

##### · 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:** Use fire extinguishing methods suitable to surrounding conditions.

· **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.

### 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.

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- **6.3 Methods and material for containment and cleaning up** Avoid generation of dust.
- **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.  
 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

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**

14808-60-7 Quartz (SiO <sub>2</sub> )	
BOELV (EU)	Long-term value: 0.1* mg/m <sup>3</sup> *respirable fraction
MAK (Germany)	Alveolar fraction
TWA (Germany)	Long-term value: 0.1 mg/m <sup>3</sup> Respirable dust
1344-28-1 aluminium oxide	
AGW (Germany)	Long-term value: 1.25* 10** mg/m <sup>3</sup> 2(II);*Alveolar**Respirable; AGS, DFG, Y
1309-48-4 magnesium oxide	
AGW (Germany)	Long-term value: 1.25* 10** mg/m <sup>3</sup> 2(II);*Alveolar**Respirable ; AGS, DFG, Y

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
 Ensure good ventilation / exhaustion at the workplace.  
 Avoid generation of dust.  
 The usual precautionary measures are to be adhered to when handling chemicals.  
 Wash hands before breaks and at the end of work.
- **Respiratory protection:** Suitable respiratory protective device recommended.

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**· Hand protection**

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:**

Butyl rubber, BR  
 Nitrile rubber, NBR  
 Natural rubber, NR

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/face protection** Dust protection goggles.

### SECTION 9: Physical and chemical properties

**· 9.1 Information on basic physical and chemical properties****· General Information**

<b>· Physical state</b>	Solid
<b>· Colour:</b>	White
<b>· Odour:</b>	Odourless
<b>· Melting point/freezing point:</b>	Undetermined.
<b>· Boiling point or initial boiling point and boiling range</b>	Undetermined.
<b>· Flammability</b>	Not determined.
<b>· Lower and upper explosion limit</b>	
<b>· Lower:</b>	Not determined.
<b>· Upper:</b>	Not determined.
<b>· Flash point:</b>	Not applicable.
<b>· Decomposition temperature:</b>	Not determined.
<b>· pH</b>	Not applicable.
<b>· Viscosity:</b>	
<b>· Kinematic viscosity</b>	Not applicable.
<b>· Dynamic:</b>	Not applicable.
<b>· Solubility</b>	
<b>· water:</b>	Insoluble.
<b>· Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>· Vapour pressure:</b>	Not applicable.
<b>· Density and/or relative density</b>	
<b>· Density:</b>	Not determined.
<b>· Relative density</b>	Not determined.
<b>· Vapour density</b>	Not applicable.
<b>· Particle characteristics</b>	See section 3.

**· 9.2 Other information**

<b>· Appearance:</b>	
<b>· Form:</b>	Powder
<b>· Important information on protection of health and environment, and on safety.</b>	
<b>· Ignition temperature:</b>	Product is not selfigniting.
<b>· Explosive properties:</b>	Product does not present an explosion hazard.
<b>· Solvent content:</b>	
<b>· Solids content:</b>	100.0 %

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· <b>Change in condition:</b>	
· <b>Evaporation rate</b>	Not applicable.
· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void.
· <b>Flammable gases</b>	Void.
· <b>Aerosols</b>	Void.
· <b>Oxidising gases</b>	Void.
· <b>Gases under pressure</b>	Void.
· <b>Flammable liquids</b>	Void.
· <b>Flammable solids</b>	Void.
· <b>Self-reactive substances and mixtures</b>	Void.
· <b>Pyrophoric liquids</b>	Void.
· <b>Pyrophoric solids</b>	Void.
· <b>Self-heating substances and mixtures</b>	Void.
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void.
· <b>Oxidising liquids</b>	Void.
· <b>Oxidising solids</b>	Void.
· <b>Organic peroxides</b>	Void.
· <b>Corrosive to metals</b>	Void.
· <b>Desensitised explosives</b>	Void.

#### 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 hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity:** Based on available data, the classification criteria are not met.

##### · LD/LC50 values relevant for classification:

##### 1344-28-1 aluminium oxide

Oral	LD50	2,000-15,900 mg/kg (Rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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.

##### · **Additional toxicological information:**

Contains quartz. Do not breathe dust. May cause lung injury (silicosis / lung cancer). Wear protection mask.

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- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

## 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.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

- **12.7 Other adverse effects**

- **Additional ecological information:**

- **General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

## 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

- **14.1 UN number or ID number**

- **ADR, IMDG, IATA** Void.

- **ADN** Void.

- **14.2 UN proper shipping name**

- **ADR, IMDG, IATA** Void.

- **14.3 Transport hazard class(es)**

- **ADR, IMDG, IATA**

- **Class** Void.

- **ADN/R Class:** Void.

- **14.4 Packing group**

- **ADR, IMDG, IATA** Void.

- **14.5 Environmental hazards:**

- **Marine pollutant:** No.

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- |   |                 |
|---|-----------------|
| · <b>14.6 Special precautions for user</b>                            | Not applicable. |
| · <b>14.7 Maritime transport in bulk according to IMO instruments</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>                                       | Void.           |

#### 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.

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 65

- |   |
|---|
| · <b>DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II</b> |
| None of the ingredients is listed.  |

- **REGULATION (EU) 2019/1148**

- |   |
|---|
| · <b>Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))</b> |
| None of the ingredients is listed.  |

- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

- **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

- **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.

- **Department issuing SDS:** Department of product security.

- **Date of previous version:** 22.03.2021

- **Version number of previous version:** 2

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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

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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)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
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.**

— EU —