

# Safety Data Sheet

According to 91/155 EWG (2001/58/EG)

Printing Date: 30.08.2007

Reviewed from Manufacturer:

30.08.2007

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Trade name: KERAVEST / TENERVEST

## 1. Identification of substance

Product details: Investment  
Product form: Powder  
Manufacturer: Eisenbacher Dentalwaren ED GmbH  
Street: Dr.-Konrad-Wiegand-Str. 9  
ZIP/city/Country.: 63939 Woerth/ GERMANY  
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Email: info@eisenbacher.de  
Homepage: www.eisenbacher.de

## 2. Composition/Data on components

Dangerous components:  
CAS: 14808 – 60 – 7  
EINECS: 238 – 878 - 4  
CAS: 14464 – 46 – 1  
EINECS: 238 – 455 – 4  
CAS : 7722 – 76 – 4  
EINECS : 231 – 764 - 5  
CAS: 7440-48-4  
EINECS: 231-158-0

Chemical characterization: Mixture of Silicon oxide, mono-ammonium-phosphate, Magnesium oxide and additives

Quartz	40 – 70 %
Cristobalite	10 – 50 %
Ammonium dihydrogene orthophosphate	5 – 19
Magnesium oxide (MgO)	4 – 17 %

## 3. Hazards identification

Information pertaining to particular dangers for man and environment: Quartz and cristobalite dust may cause silicosis. Quartz dust identifies popular lung (Alveo) dust, which contains crystalline, silicon oxide (Quartz, Cristobalite, Tridymite). This dust can occur during the handling especially with the processing of quartz-containing materials.

## 4. First aid measures

skin: Wash off with plenty of water and soap  
Inhaling: Fresh air. In case of disorders, please contact a doctor.  
Swallowing: Do not initiate vomiting. Contact a doctor  
Eye contact: Rinse opened eye for approx. 15 min under running water

## 5. Fire fighting measures

Suitable extinguishing agents: Product does not burn  
Specific hazards during fire fighting: Ammonia forms if heated above 200 °C  
Protective equipment: No special measures required

## 6. Accidental release measures

Person-related safety precautions: In case of release dust/Aerosol only work with a protection mask. Constantly wash dirty clothes. Take off dirty clothes after work.  
Measures for cleaning/collecting: Collect mechanically. Prevent formation of dust

## 7. Handling and storage

Handling: Always wear protection mask  
Information for safe handling: Arrange good ventilation/exhaustion at workplace.  
Prevent formation of dust  
Storage and container: Keep container tightly closed, store dry, prevent formation of dust  
Information about storage in one common storage facility: No special requirements

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## 8. Exposure controls and personal protection

Additional information about design of technical systems: Arrange good ventilation/exhaustion at workplace. A convenient inhalation protection has to be worn when exceeding the accepted limit of values at the workplace and/or in case of release of large bulks (leakage, spill, dust).

Components with critical values that require monitoring at the workplace: Particulate matter MAK 0,15 mg/m<sup>3</sup> (popular alveo fractions) 14808 – 60 – 7 Quartz

Particulate matter MAK 0,15 mg/m<sup>3</sup> (popular alveo fractions) 14464 – 46 – 1 Cristobalite

Particulate matter MAK 6 mg/m<sup>3</sup> (popular alveo fractions) 1309 – 48 – 4 Magnesium oxide

Additional information: The lists that were valid during the compilation were used as basis

Personal protective equipment: General protective and hygienic measures: Do not inhale dust! The usual precautionary measures should be adhered in handling the chemicals

Breathing equipment: Filter device – Filter FFP2

Protection for hands: Not required

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

Penetration time of glove material: The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed

Eye protection: Safety glasses

## 9. Physical and chemical properties

Form: powder

Colour: white - grey

Smell: almost odourless

Change in condition:

Flash point: not applicable

Ignition point: –

Melting point: 2000 °C

Bulk density: 1 – 1,1 g/cm<sup>3</sup>

Solubility in / Miscibility with water: hardly soluble

pH: approx. 5

## 10. Stability and reactivity

Thermische Zersetzung: > 200 °C

Dangerous reactions: No dangerous reactions known

Dangerous products of composition: Ammonia, water steam

## 11. Toxicological information

Acute toxicity:

Primary irritant effect:

On the skin: No irritant effect

On the eye: Mecanical mucous lining may occur

Respiratory tract: Mecanical mucous lining may occur

## 12. Ecological information

General notes according to VwVwS: Water hazard class 1 – slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

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## 13. Disposal considerations

Product:	
Recommendation:	Must not be disposed of together with household garbage. Disposal according to local authority regulations.
European waste catalogue:	10 10 05 casting cores and moulds which have not undergone pouring, containing dangerous substance  10 10 07 casting cores and moulds which have not undergone pouring, containing dangerous substance
Uncleaned packagings:	
Recommendation:	Disposal must be made according to official regulations. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

## 14. Transport information

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic):	—
Maritime transport IMDG/GGV Sea:	—
Air transport ICAO-TI and IATA-DGR:	—
Transport/ other information:	Not classified as dangerous in the meaning of transport regulations.

## 15. Regulatory information

Designation according to EC guidelines:	Observe the normal safety regulations when handling with chemicals. The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).
National regulations:	
General Classification Guideline for Preparations of the EC (BetrSichV):	—
Water hazard class:	Water hazard class 1 (calculated according to VwVwS): slightly hazardous for water

## 16. Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

Contact: Eisenbacher Dentalwaren ED GmbH  
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