

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.04.2023

Version number 1

Revision: 11.04.2023

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

### 1.1 Product identifier

- Trade name **Kera® S-Powder**
- Article number: 1004000-P , 1004000-PK

### 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** Additive strengthening for dental frameworks in the laser melting process

### 1.3 Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

Eisenbacher Dentalwaren ED GmbH  
Dr. - Konrad - Wiegand - Straße 9  
63939 Wörth / Main, Germany  
Tel.: 0049 9372 / 94 04 - 0  
www.eisenbacher.de

#### Information:

product management tel.: +49 93 72 - 94 04 - 0  
or by mail: info@eisenbacher.de

### 1.4 Emergency telephone number:

Tel.: +49 (0) 9372 9404 0, Monday to Friday 8.00 a.m. to 5.00 p.m., in German and English, also contact the local poison control centres

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

The following classification is not applicable to the alloy but only for the fumes, smokes and dusts formed during the processing and machining.

- |                   |       |  |
|-------------------|-------|--|
| Resp. Sens. 1     | H334  | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Skin Sens. 1      | H317  | May cause an allergic skin reaction.                                       |
| Muta. 2           | H341  | Suspected of causing genetic defects.                                      |
| Carc. 1B          | H350  | May cause cancer.  |
| Repr. 1B          | H360F | May damage fertility.  |
| Aquatic Chronic 4 | H413  | May cause long lasting harmful effects to aquatic life.                    |

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

#### Hazard pictograms



GHS08

#### Signal word Danger

#### Hazard-determining components of labelling:

cobalt

#### Hazard statements

- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.

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- H341 Suspected of causing genetic defects.
- H350 May cause cancer.
- H360F May damage fertility.
- H413 May cause long lasting harmful effects to aquatic life.

## Precautionary statements

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P284 [In case of inadequate ventilation] wear respiratory protection.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P321 Specific treatment (see on this label).
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## Information pertaining to particular dangers for man and environment

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

## SECTION 3: Composition/information on ingredients

### 3.2 Chemical characterisation: Mixtures

#### Dangerous components:

CAS: 7440-48-4	cobalt	50-100%
EINECS: 231-158-0	Resp. Sens. 1, H334; Muta. 2, H341; Carc. 1B, H350; Repr. 1B, H360F; Skin	
Index number: 027-001-00-9	Sens. 1, H317; Aquatic Chronic 4, H413	
CAS: 7440-47-3	chromium	25-<50%
EINECS: 231-157-5	substance with a Community workplace exposure limit	
CAS: 7440-33-7	tungsten	2.5-<10%
EINECS: 231-143-9	substance with a Community workplace exposure limit	
CAS: 7440-21-3	silicon	<2.5%
EINECS: 231-130-8	Flam. Sol. 2, H228	

#### Additional information

For the wording of the listed hazard phrases refer to section 16.  
No further relevant information available.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General information** Instantly remove any clothing soiled by the product.

#### After inhalation :

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

#### After skin contact :

Instantly rinse with water.

The product is not skin irritating.

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- If skin irritation continues, consult a doctor.
- . **After eye contact** : Rinse opened eye for 15 minutes under running water.
- . **After swallowing** : In case of persistent symptoms consult doctor.
- . **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**
- . **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- . **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- . **5.3 Advice for firefighters**
- . **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- . **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- . **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or water bodies.  
Inform respective authorities in case product reaches water or sewage system.
- . **6.3 Methods and material for containment and cleaning up:**  
Dispose of contaminated material as waste according to section 13.  
Ensure adequate ventilation.  
Dispose of the material collected according to regulations.
- . **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 information on disposal.

### SECTION 7: Handling and storage

- . **7.1 Precautions for safe handling**  
Keep containers tightly sealed.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle container with care.
- . **Information about protection against explosions and fires:** Keep breathing equipment ready.
- . **7.2 Conditions for safe storage, including any incompatibilities**
- . **Storage**
- . **Requirements to be met by storerooms and containers:** No special requirements.
- . **Information about storage in one common storage facility:** Not required.
- . **Further information about storage conditions:** Keep container tightly sealed.
- . **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- . **8.1 Control parameters**
- . **Components with critical values that require monitoring at the workplace:**

**7440-48-4 cobalt**

WEL (Great Britain)

Long-term value: 0.1 mg/m<sup>3</sup>  
as Co; Carc, Sen

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## 7440-47-3 chromium

WEL (Great Britain) Long-term value: 0.5 mg/m<sup>3</sup>  
IOELV (European Union) Long-term value: 2 mg/m<sup>3</sup>  
as Cr

## 7440-33-7 tungsten

WEL (Great Britain) Short-term value: 10 mg/m<sup>3</sup>  
Long-term value: 5 mg/m<sup>3</sup>  
as W

## 7440-21-3 silicon

WEL (Great Britain) Long-term value: 10\* 4\*\* mg/m<sup>3</sup>  
\*inhalable dust \*\*respirable dust

. **Additional information:** The lists that were valid during compilation were used as a basis.

### . 8.2 Exposure controls

#### . Personal protective equipment

#### . General protective and hygienic measures

The usual precautionary measures should be adhered to in handling the chemicals.

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Store protective clothing separately.

#### . Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

#### . Protection of hands:

Protective gloves:

In case of spray contact at least protection index 2 recommended, according to more than 30 min. penetration time (EN 374).

Layer thickness of gloves at least: 0.4 mm

In case of prolonged and intensive contact protection index 6 recommended, according to more than 480 min. penetration time (EN 374).

Layer thickness of gloves at least: 0.7 mm

#### . Material of gloves

Butyl rubber, BR

Nitrile rubber, NBR

Natural rubber, NR

PVC or PE gloves

Neoprene gloves

#### . 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:** Tightly sealed safety glasses (DIN 58211, EN 166)

. **Body protection:** Light weight protective clothing

## SECTION 9: Physical and chemical properties

### . 9.1 Information on basic physical and chemical properties

#### . General Information

##### . Appearance:

Form:

Solid

Colour:

According to product specification

. Smell:

Characteristic

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. Odour threshold:	Not determined.
. pH-value:	Not applicable.
. Change in condition	
Melting point/freezing point:	1,200-1,550 °C
Initial boiling point and boiling range:	2,672 °C
. Flash point:	Not applicable
. Inflammability (solid, gaseous)	Not determined.
. Decomposition temperature:	Not determined.
. Self-inflammability:	Product is not selfigniting.
. Explosive properties:	Product is not explosive.
. Critical values for explosion:	
Lower:	Not determined.
Upper:	Not determined.
. Dust explosion class:	
Oxidising properties	none
. Steam pressure at 994 °C:	0 hPa
. Density at 20 °C	8.55 g/cm <sup>3</sup>
. Relative density	Not determined.
. Vapour density	Not applicable.
. Evaporation rate	Not applicable.
. Solubility in / Miscibility with	
Water:	Fully miscible Soluble
. Partition coefficient: n-octanol/water:	Not determined.
. Viscosity:	
dynamic:	Not applicable.
kinematic:	Not applicable.
. Solvent content:	
Solids content:	100.0 %
. 9.2 Other information	No further relevant information available.

### SECTION 10: Stability and reactivity

- . 10.1 Reactivity  
No further relevant information available.  
No further relevant information available.
- . 10.2 Chemical stability
- . Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- . 10.3 Possibility of hazardous reactions No dangerous reactions known
- . 10.4 Conditions to avoid No further relevant information available.
- . 10.5 Incompatible materials: No further relevant information available.
- . 10.6 Hazardous decomposition products: No further relevant information available.

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### SECTION 11: Toxicological information

#### . 11.1 Information on toxicological effects

- . **Acute toxicity** Based on available data, the classification criteria are not met.
- . **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**  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.
- . **Subacute to chronic toxicity:**  
Do not breathe dust.  
Harmful: possible risk of irreversible effects through inhalation.
- . **Additional toxicological information:**
- . **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
The product contains a substance known to be carcinogenic.  
Suspected of causing genetic defects.
- . **Germ cell mutagenicity**  
Suspected of causing genetic defects.
- . **Carcinogenicity**  
May cause cancer.
- . **Reproductive toxicity**  
May damage fertility.
- . **STOT-single exposure** Based on available data, the classification criteria are not met.
- . **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- . **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- . **12.1 Toxicity**
- . **Aquatic toxicity:** No further relevant information available.
- . **12.2 Persistence and degradability** No further relevant information available.
- . **Behaviour in environmental systems:**
- . **Components:** Product should not get in higher quantities into waste water because of its consumption of oxygen.
- . **12.3 Bioaccumulative potential** No further relevant information available.
- . **12.4 Mobility in soil** No further relevant information available.
- . **Additional ecological information:**
- . **General notes:**  
Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into soil.
- . **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**
- . **Uncleaned packaging:**
- . **Recommendation:**  
Dispose of packaging according to regulations on the disposal of packagings.  
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

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Packagings that cannot be cleaned are to be disposed of in the same manner as the product.  
Recommended cleaning agent: Water, if necessary with cleaning agent.

### SECTION 14: Transport information

. 14.1 UN-Number	
. ADR/RID/ADN, IMDG, IATA	Void
. 14.2 UN proper shipping name	
. ADR/RID/ADN, IMDG, IATA	Void
. 14.3 Transport hazard class(es)	
. ADR/RID/ADN, IMDG, IATA	
. Class	Void
. 14.4 Packing group	
. ADR/RID/ADN, IMDG, IATA	Void
. 14.5 Environmental hazards:	Not applicable.
. 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.
. UN "Model Regulation":	Void

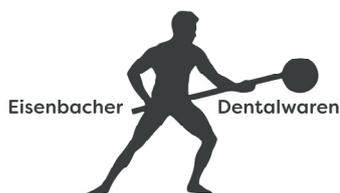
### SECTION 15: Regulatory information

- . 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- . Directive 2012/18/EU
- . Named dangerous substances - ANNEX I None of the ingredients is listed.
- . National regulations
- . Information about limitation of use:  
Workers should not be exposed to the hazardous materials contained in this preparation. Exceptions can be made by the authorities in certain exceptional cases.  
Employment restrictions concerning young persons must be observed.
- . 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### SECTION 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.
- . Relevant phrases
    - H228 Flammable solid.
    - H317 May cause an allergic skin reaction.
    - H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
    - H341 Suspected of causing genetic defects.
    - H350 May cause cancer.
    - H360F May damage fertility.
    - H413 May cause long lasting harmful effects to aquatic life.
  - . 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
    - 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)

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PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Sol. 2: Flammable solids – Category 2  
Resp. Sens. 1: Respiratory sensitisation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
Muta. 2: Germ cell mutagenicity – Category 2  
Carc. 1B: Carcinogenicity – Category 1B  
Repr. 1B: Reproductive toxicity – Category 1B  
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4  
Sources: source ECHA: European Chemicals Agency, <http://echa.europa.eu/>  
\* Data compared to the previous version altered.