



**Safety Data Sheet  
according to WHS Regulations**

Printing date 01.02.2021

Version number 4

Revision: 01.02.2021

Hazardous according to criteria of Australian Safety and Compensation Council.

## 1 Identification

· **Product identifier**

· **Trade name:** **Heraenium P**

· **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

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Kulzer Australia Pty Ltd  
Unit 20, 53 Lorraine Street  
Peakhurst, NSW 2210  
Australia

Tel: +61 (0) 2 9153 0311

· **Informing department:** see above

· **Emergency telephone number:**

Poison Information Number: Australia 13 11 26 & New Zealand 0800 764 766

## 2 Hazard(s) Identification

· **Classification of the substance or mixture**

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.

· **Label elements**

· **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**

cobalt

· **Hazard statements**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

· **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

In case of inadequate ventilation wear respiratory protection.

Specific treatment (see on this label).

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Wash contaminated clothing before reuse.

· **Other hazards -**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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### 3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**

· **Description:** Co-Cr - alloy

· **Dangerous components:**

|                                     |   |        |
|-------------------------------------|---|--------|
| CAS: 7440-48-4<br>EINECS: 231-158-0 | cobalt<br>Resp. Sens. 1, H334; Skin Sens. 1, H317                                       | 50-75% |
| CAS: 7440-47-3<br>EINECS: 231-157-5 | chromium  | 10-25% |
| CAS: 7440-33-7<br>EINECS: 231-143-9 | tungsten  | 5-10%  |
| CAS: 7439-98-7<br>EINECS: 231-107-2 | molybdenum<br>Ox. Sol. 1, H271  | 0-5%   |
| CAS: 7440-21-3<br>EINECS: 231-130-8 | silicon, containing more than 99.99 per cent by weight of silicon<br>Flam. Sol. 2, H228 | < 1%   |

· **Additional information**

The informations as to risks and precautions given in the chapters 4 to 8, 10 to 12 do not apply to the product itself, but only to dust and vapours generated on working with it.  
For the wording of the listed hazard phrases refer to section 16.

### 4 First Aid Measures

· **Description of first aid measures**

- **General information** No special measures required.
- **After inhalation** After inhalation of smoke, vapors and dust get fresh air and see a doctor.
- **After skin contact** The product is not skin irritating.
- **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 persistent symptoms consult doctor.
- **Information for doctor**
  - **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
  - **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire Fighting Measures

- **Extinguishing media**
  - **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
  - **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information** -

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**  
Use breathing protection against the effects of fumes/dust/aerosol.
- **Environmental precautions:** Do not allow to enter drainage system, surface or ground water.
- **Methods and material for containment and cleaning up:** Collect mechanically.

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- **Reference to other sections**  
See Section 8 for information on personal protection equipment.

**7 Handling and Storage**

- **Handling**
  - **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
  - **Information about protection against explosions and fires:** No special measures required.
- **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:** None.
- **Specific end use(s)** No further relevant information available.

**8 Exposure controls and personal protection**

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

· **Components with critical values that require monitoring at the workplace:**

**7440-48-4 cobalt**

|                 |  |
|-----------------|--|
| NES (Australia) | 0.05 mg/m <sup>3</sup><br>Sen                            |
| PEL (USA)       | 0.1* mg/m <sup>3</sup><br>*for metal dust & fume, as Co  |
| REL (USA)       | 0.05* mg/m <sup>3</sup><br>*For metal dust & fume, as Co |
| TLV (USA)       | 0.02 mg/m <sup>3</sup><br>as Co; BEI                     |

**7440-47-3 chromium**

|                 |                       |
|-----------------|-----------------------|
| NES (Australia) | 0.5 mg/m <sup>3</sup> |
| PEL (USA)       | 1 mg/m <sup>3</sup>   |
| REL (USA)       | 0.5 mg/m <sup>3</sup> |
| TLV (USA)       | 0.5 mg/m <sup>3</sup> |

**7440-33-7 tungsten**

|                 |  |
|-----------------|--|
| NES (Australia) | Short-term value: 10 mg/m <sup>3</sup><br>Long-term value: 50 mg/m <sup>3</sup>        |
| REL (USA)       | Short-term value: 10 mg/m <sup>3</sup><br>Long-term value: 5 mg/m <sup>3</sup><br>as W |
| TLV (USA)       | Short-term value: 10 mg/m <sup>3</sup><br>Long-term value: 5 mg/m <sup>3</sup><br>as W |

**7439-98-7 molybdenum**

|                 |  |
|-----------------|--|
| NES (Australia) | 10 mg/m <sup>3</sup>                           |
| TLV (USA)       | 10 l* mg/m <sup>3</sup><br>as Mo; 3 R* 0.5 R** |

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**7440-21-3 silicon, containing more than 99.99 per cent by weight of silicon**

|                 |   |
|-----------------|---|
| NES (Australia) | 10 mg/m <sup>3</sup>  |
| PEL (USA)       | 15*; 5** mg/m <sup>3</sup><br>*Total dust **Respirable fraction |
| REL (USA)       | 10*; 5** mg/m <sup>3</sup><br>*Total dust **Respirable fraction |
| TLV (USA)       | 10 mg/m <sup>3</sup>  |

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

· **Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

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

· **Breathing equipment:** Not required.

· **Protection of hands:**

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Check protective gloves prior to each use for their proper condition.  
recommended

· **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.

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Butyl rubber, BR  
Nitrile rubber, NBR

· **Eye protection:** not absolutely necessary

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

**9 Physical and Chemical Properties**

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

· **General Information**

· **Appearance:**

|                           |                 |
|---------------------------|-----------------|
| · <b>Form:</b>            | Rope            |
| · <b>Colour:</b>          | Various colours |
| · <b>Smell:</b>           | Odourless       |
| · <b>Odour threshold:</b> | Not determined. |

· **pH-value:** Not applicable.

· **Change in condition**

· **Melting point/freezing point:** 1400 °C  
· **Initial boiling point and boiling range:** > 999 °C

· **Flash point:** Not applicable

· **Inflammability (solid, gaseous)** Not determined.

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|  |  |
|--|--|
| · <b>Ignition temperature:</b>                   |  |
| · <b>Decomposition temperature:</b>              | Not determined.                            |
| · <b>Self-inflammability:</b>                    | Product is not selfigniting.               |
| · <b>Explosive properties:</b>                   | Product is not explosive.                  |
| · <b>Critical values for explosion:</b>          |  |
| · <b>Lower:</b>                                  | Not determined.                            |
| · <b>Upper:</b>                                  | Not determined.                            |
| · <b>Steam pressure:</b>                         | Not applicable.                            |
| · <b>Density at 20 °C</b>                        | 8.800 g/cm <sup>3</sup>                    |
| · <b>Relative density</b>                        | Not determined.                            |
| · <b>Vapour density</b>                          | Not applicable.                            |
| · <b>Evaporation rate</b>                        | Not applicable.                            |
| · <b>Solubility in / Miscibility with</b>        |  |
| · <b>Water:</b>                                  | Insoluble                                  |
| · <b>Partition coefficient: n-octanol/water:</b> | Not determined.                            |
| · <b>Viscosity:</b>                              |  |
| · <b>dynamic:</b>                                | Not applicable.                            |
| · <b>kinematic:</b>                              | Not applicable.                            |
| · <b>Solvent content:</b>                        |  |
| · <b>Solids content:</b>                         | 100.0 %                                    |
| · <b>Other information</b>                       | No further relevant information available. |

### 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
  - **Conditions to be avoided:** No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** None

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**
  - **Primary irritant effect:**
    - **Skin corrosion/irritation** No irritant effect.
    - **Serious eye damage/irritation** No irritant effect.
  - **Respiratory or skin sensitisation** No sensitizing effect known.
- **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version.

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When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

### 12 Ecological Information

- **Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
  - **Bioaccumulative potential** No further relevant information available.
  - **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation** Smaller quantities can be disposed with household garbage.
- **Uncleaned packagings:**
  - **Recommendation:** Packaging can be reused or recycled after cleaning.

### 14 Transport information

|  |                 |
|--|-----------------|
| · <b>UN-Number</b><br>· <b>ADG, ADN, IMDG, IATA</b>                                    | Void            |
| · <b>UN proper shipping name</b><br>· <b>ADG, ADN, IMDG, IATA</b>                      | Void            |
| · <b>Transport hazard class(es)</b><br>· <b>ADG, ADN, IMDG, IATA</b><br>· <b>Class</b> | Void            |
| · <b>Packing group</b><br>· <b>ADG, IMDG, IATA</b>                                     | Void            |
| · <b>Environmental hazards:</b><br>· <b>Marine pollutant:</b>                          | No              |
| · <b>Special precautions for user</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>            | Not applicable. |
| · <b>Transport/Additional information:</b>   | -               |
| · <b>UN "Model Regulation":</b>  | Void            |



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### 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



GHS08

· **Signal word** *Danger*

· **Hazard-determining components of labelling:**

*cobalt*

· **Hazard statements**

*May cause allergy or asthma symptoms or breathing difficulties if inhaled.*

*May cause an allergic skin reaction.*

· **Precautionary statements**

*Avoid breathing dust/fume/gas/mist/vapours/spray.*

*Wear protective gloves/protective clothing/eye protection/face protection.*

*In case of inadequate ventilation wear respiratory protection.*

*Specific treatment (see on this label).*

*If experiencing respiratory symptoms: Call a POISON CENTER/doctor.*

*Wash contaminated clothing before reuse.*

· **National regulations**

· **Water hazard class:** *Generally not hazardous for water.*

· **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

### 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.*

*H271 May cause fire or explosion; strong oxidiser.*

*H317 May cause an allergic skin reaction.*

*H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.*

· **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*

*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*

*Flam. Sol. 2: Flammable solids – Category 2*

*Ox. Sol. 1: Oxidizing solids – Category 1*

*Resp. Sens. 1: Respiratory sensitisation – Category 1*

*Skin Sens. 1: Skin sensitisation – Category 1*

· **\* Data compared to the previous version altered.**