

SECTION 1: *Identification*

- **1.1 Product identifier**
- Trade name: ZrPro® Ceram, Zirconia ceramic, Dental ceramic
- **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:** Auxiliary for manufacture of dental prosthesis.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
- Elegant Dent Ltd
- Woodland Enterprise, Hastings Road, Flimwell,
- East Sussex, TN5 7PR, United Kingdom
- Tel: +44 208 453 6067
- Fax: +44 207 681 1110
- **Informing department:** E-mail: info@elegantdent.com
- **1.4 Emergency telephone number:** +44 208 453 6067

SECTION 2: *Hazards identification*

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No. 1272/2008:**
- The product is not classified according to the CLP regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No. 1272/2008:** Void.
- **Hazard pictograms:** Void.
- **Signal word:** Void.
- **Hazard statements:** Void.
- **2.3 Other hazards –**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: *Composition/information on ingredients*

- **3.1 Chemical characterisation:** Substances.
- **CAS No. Designation:**
- Ceramic.

- **Identification number(s):** -

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SECTION 4: *First aid measures*

- **4.1 Description of first aid measures**
- **General information:** No special measures required.
- **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.
- **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:**
- CO₂, extinguishing powder, or water jet. Fight larger fires with water jet or 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:** No special measures required.
- **Additional information -**

SECTION 6: *Accidental release measures*

- **6.1 Personal precautions, protective equipment and emergency procedures:** Not required.
- **6.2 Environmental precautions:** No special measures required.
- **6.3 Methods and material for containment and cleaning up:**
- Collect mechanically.
- **6.4 Reference to other sections:**
- No dangerous materials are released.
- See Section 8 for information on personal protection equipment.

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SECTION 7: *Handling and storage*

- **7.1 Precautions for safe handling:** Prevent formation of dust.
- **Information about protection against explosions and fires:** No special measures required.
- **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:** None.
- **7.3 Specific end use(s):** No further relevant information available.

SECTION 8: *Exposure controls/personal protection*

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the 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.
- **Breathing equipment:** Filter P1.
- **Protection of hands:**
- The glove material has to be impermeable and resistant to the product/the substance/the preparation. 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 cannot be calculated in advance and therefore has 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.

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- **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:** Safety glasses.
- **Body protection:** Light weight protective clothing.

SECTION 9: *Physical and chemical properties*

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

· **General information**

· **Appearance:**

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|---------------------------|-------------------------------------|
| · Form: | Powder. |
| · Colour: | According to product specification. |
| · Smell: | Odourless. |
| · Odour threshold: | Not determined. |
| · pH-value: | Not determined. |

· **Change in condition**

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|---------------------------------------|-----------------|
| · Melting point/Melting range: | 900°C |
| · Boiling point/Boiling range: | Not determined. |
| · Flash point: | Not applicable. |

- | | |
|---|-----------------|
| · Inflammability (solid, gaseous): | Not applicable. |
|---|-----------------|

· **Ignition temperature:**

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| · Decomposition temperature: | Not determined. |
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- | | |
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| · Self-inflammability: | Not determined. |
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| · Danger of explosion: | Product is not explosive. |
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· **Critical values for explosion**

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|-----------------|-----------------|
| · Lower: | Not determined. |
| · Upper: | Not determined. |

- | | |
|----------------------------------|-----------------|
| · Steam pressure at 20°C: | Not applicable. |
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|----------------------------|-----------------------|
| · Density at 20°C: | 2.5 g/cm ³ |
| · Relative density: | Not determined. |

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| <ul style="list-style-type: none"> · Settled apparent density at 20°C: 830 kg/m³ (Contd. of page 4) · Relative density: Not determined. · Vapour density: Not applicable. |
| <ul style="list-style-type: none"> · Solubility in/Miscibility with · Water: Fully miscible. |
| <ul style="list-style-type: none"> · Partition coefficient (n-octanol/water): Not determined. |
| <ul style="list-style-type: none"> · Viscosity · Dynamic: Not determined. · Kinematic: Not determined. |
| <ul style="list-style-type: none"> · Solids content: 100% · 9.2 Other information: No further relevant information available. |

SECTION 10: *Handling and storage*

- **10.1 Reactivity:** No further relevant information available.
- **10.2 Chemical stability**
- **Conditions to be avoided:** No decomposition if used and stored 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:** None.
- **Additional information:** -

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:** Based on available data, the classification criteria are not met.
- **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.
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.

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- **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.
- **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 Other adverse effects:** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed with household garbage.

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| · European waste catalogue | |
| 18 01 07 | Chemicals other than those mentioned in 18 01 06 |

- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **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.

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| <ul style="list-style-type: none"> • 14.5 Environmental hazards | (Contd. of page 6) |
| <ul style="list-style-type: none"> • Marine pollutant: | No. |
| <ul style="list-style-type: none"> • 14.6 Special precautions for user: | Not applicable. |
| <ul style="list-style-type: none"> • 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: | Not applicable. |
| <ul style="list-style-type: none"> • Transport/Additional information: | - |
| <ul style="list-style-type: none"> • 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:** Substance is not listed.
- **National regulations**
- **Water hazard class:** Generally not hazardous for water.
- **Other regulations, limitations, and prohibitive regulations:**
- The product is a medical device according to the Directive 93/42/EEC.
- **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.

- **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)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative