

Printing date: 12.04.2018

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*	1 Identification of the substance/ preparation and of the company/ undertaking <ul style="list-style-type: none">• Product identifier• Trade name: <u>PROCEED Powder Ceramics</u>• Relevant identified uses of the substances or mixture and used advised against: No further relevant information available• Application of the substance / the mixture: Auxiliary for dental technology• Manufacturer/ Supplier: KLEMA Dentalprodukte GmbH Koblacherstraße 3a, A-6812 Meiningen Tel. +43 5522 36837 Fax +43 5522 36839 E-Mail: office@klema.at• Further information obtainable from: Technical Operations• Emergency telephone number: National Poison Centre for INDIA: 011 – 26589391 / 26593677 Toll Free Number: 1800116117
*	2 Hazards identification <ul style="list-style-type: none">• Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008: The product is not classified according to the CLP regulation.• Label elements Labelling according to Regulation (EC) No 1272/2008: Void Hazard pictograms: Void Signal word: Void Hazard statements: Void• Other hazards Results of PBT and vPvB: assessment PBT: Not applicable. vPvB: Not applicable.
*	3 Composition/ information on ingredients <ul style="list-style-type: none">• Chemical characterization: Mixture• Description Only substances required to be mentioned according to Annex II of regulation 1907/2006 are listed. Information on the other substances that may be present can be obtained upon request• Dangerous composition: Void• Additional information: For the wording of the listed risk phrases refer to section 16.
*	4 First aid measures <ul style="list-style-type: none">• General information: No special measures required. If symptoms persist consult doctor.• After inhalation: Take affected persons into fresh air and keep quiet.• After skin contact: Generally, the product does not irritate the skin. Immediately rinse with water• After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor• After swallowing: Rinse out mouth and then drink plenty of water. If symptoms persist consult 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 <ul style="list-style-type: none">• Suitable extinguishing agents: CO₂, powder or water sprays, Fight larger fire water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.• For safety reasons unsuitable extinguishing agents: Water with full jet• Special hazards arising from the substance or mixture: Formation of toxic gases is possible during heating or in case of fire.• Protective equipment: Wear self-contained respiratory protective device.

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- **Additional information:** Dispose of fire debris and contaminated firefighting water in accordance with official regulations.

* **6 Accidental release measures**

- **Person-related safety precautions:** Not required.
- **Measure for environmental protection:** Do not allow to enter sewers/surface or ground water.
- **Measure for cleaning/collecting:** Pick up mechanically.
- **Additional information:** No dangerous substances are released.
- **Personal precautions, protective equipment and emergency procedures:** Remove persons from danger area.
- **Environmental precautions:** Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil. Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically. Dispose of the material collected according to regulations. Dispose contaminated material as waste according to item 13.
- **Reference to other sections** No dangerous substances are released. See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

* **7 Handling and storage**

- **Precaution for safe handling:** Prevent formation of dust. Any unavoidable deposit of dust must be regular removed
- **Information about fire- and explosion protection:** Dust can combine with air to form an explosive mixture.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in unopened original receptacles
- **Information about storage in one common storage facility:** Store away from foodstuffs
- **Further information about storage conditions:** None.
- **Specific end use(s):** No further relevant information available.

* **8 Exposure controls/ personal protections**

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals. Do not inhale dust/ smok/ mist. Wash hands before breaks and at the end of work.
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:** Protective gloves
- **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. 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 protection:** Safety glasses

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*	9 Physical and chemical properties																																																				
	<p>Information on basic physical and chemical properties</p> <p>• General Information</p> <p>Appearance:</p> <p>Form: Powder</p> <p>Colour: According to product specification</p> <p>Odour: Characteristic</p> <p>Odour threshold: Not determined</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">pH-value</td> <td>Not applicable</td> </tr> <tr> <td colspan="2">Change of condition</td> </tr> <tr> <td>Melting point/ Melting range</td> <td>Undetermined</td> </tr> <tr> <td>Poling point/ Boiling range</td> <td>Undetermined</td> </tr> <tr> <td>Flash point</td> <td>Not applicable</td> </tr> <tr> <td>Flammability (solid, gaseous)</td> <td>Product is not flammable</td> </tr> <tr> <td>Ignition temperature</td> <td>Undetermined</td> </tr> <tr> <td>Decompositon temperature</td> <td>Not determined</td> </tr> <tr> <td>Self-igniting</td> <td>Not determined</td> </tr> <tr> <td>Danger of explosion</td> <td>Product does not present an explosion hazard</td> </tr> <tr> <td colspan="2">Explosion limits</td> </tr> <tr> <td>Lower</td> <td>Not determined</td> </tr> <tr> <td>Upper</td> <td>Not determined</td> </tr> <tr> <td>Vapour pressure</td> <td>Not applicable</td> </tr> <tr> <td>Density</td> <td>Not determined</td> </tr> <tr> <td>Relative density</td> <td>Not determined</td> </tr> <tr> <td>Vapour density</td> <td>Not applicable</td> </tr> <tr> <td>Evaporative rate</td> <td>Not applicable</td> </tr> <tr> <td colspan="2">Solubility in/ Miscibility with</td> </tr> <tr> <td>Water:</td> <td>Insoluble</td> </tr> <tr> <td>Partition coefficient (n-octanol/water)</td> <td>Not determined</td> </tr> <tr> <td colspan="2">Viscosity</td> </tr> <tr> <td>Dynamic</td> <td>Not applicable</td> </tr> <tr> <td>Kinematic</td> <td>Not applicable</td> </tr> <tr> <td>Organic solvents</td> <td>0.0%</td> </tr> <tr> <td>Other information</td> <td>No further relevant information available</td> </tr> </table>	pH-value	Not applicable	Change of condition		Melting point/ Melting range	Undetermined	Poling point/ Boiling range	Undetermined	Flash point	Not applicable	Flammability (solid, gaseous)	Product is not flammable	Ignition temperature	Undetermined	Decompositon temperature	Not determined	Self-igniting	Not determined	Danger of explosion	Product does not present an explosion hazard	Explosion limits		Lower	Not determined	Upper	Not determined	Vapour pressure	Not applicable	Density	Not determined	Relative density	Not determined	Vapour density	Not applicable	Evaporative rate	Not applicable	Solubility in/ Miscibility with		Water:	Insoluble	Partition coefficient (n-octanol/water)	Not determined	Viscosity		Dynamic	Not applicable	Kinematic	Not applicable	Organic solvents	0.0%	Other information	No further relevant information available
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*	10 Stability and reactivity																																																				
	<ul style="list-style-type: none"> • Reactivity No further relevant information available. • Chemical stability • Thermal decomposition/ conditions to be avoided: No decomposition if used 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: No dangerous decomposition products known 																																																				
*	11 Toxicological information																																																				
	<p>Information on toxicological effects</p> <ul style="list-style-type: none"> • Acute toxicity 																																																				

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- **LD/LC50 values relevant for classification:** No further relevant information available.
- **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.
- **Repeated dose toxicity:** No further relevant information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** No further relevant information available.
- **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:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

* **12 Ecological information**

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water. Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

* **13 Disposal consideration**

- **Waste treatment methods:**
- **Recommendation:** Smaller quantities can be disposed of with household waste.

European waste catalogue	
18 00 00	WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)
18 01 00	wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 06	chemicals consisting of or containing dangerous substances

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

* **14 Transport information**

- | | |
|---------------------------------------|----------------|
| • UN-Number | |
| • ADR, AND, IMDG, IATA | not regulated |
| • UN proper shipping name | |
| • ADR, AND, IMDG, IATA | not regulated |
| • Transport hazard class(es) | |
| • ADR, AND, IMDG, IATA | |
| • Class | not regulated |
| • Packaging group | |
| • ADR, IMDG, IATA | not regulated |
| • Environmental hazards: | |
| • Marine pollutant | No |
| • Special precautions for user | Not applicable |

* **15 Regulatory information**

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- **Safety, health and environmental regulations/legislation specific for the substance or mixture:** No further relevant information available.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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16 Other informations

- **Classification according to Regulation (EC) No 1272/2008**

Calculation method

- **Department issuing MSDS:** Research and Development, Klema Dentalprodukte GmbH

- **Contact:** office@klema.at

- **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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

- **Sources**

- ECHA (<http://echa.europa.eu/>)

- EnviChem (www.echemportal.org)

- ***Data compared to the previous altered**

This version replaces all previous versions.

Disclaimer:

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