

Material Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision:03

Revision Date: 22.08.2024

Print Date : 20.03.2018



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

1.1. Product identifier

ZIRCON X Multilayer– Dental Zirconia Ceramic

Details of the supplier of the safety data sheet

Company Name: President Dental GmbH

Street: Kesselbodenstrasse 5

Zip-Code / Town/ Country: 85391 , Allershausen, Germany

Contact for technical information: +49 (0) 230 39228772

Phone / Fax / E-Mail: +49 (0) 8166 389 9 820 / +49 (0) 8166 389 9 821 / info@presidentdental.com

1.2. Emergency Telephone Number

+49 (0) 8166 389 9 820 (8.00 am – 4.30 pm Mon-Fri)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This product is not classified as dangerous according to the GHS (The Globally Harmonized System of Classification and Labelling of Chemicals)

2.2 Label Elements

Signal Word	No signal words
Pictograms:	No pictogram is used
Hazard statements	No hazard statement
Precautionary statements	No precautionary statement
Additional Hazards	None. This product is regarded as articles; no substances are intended to be released and will be safe for consumer during normal handling

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Dental Glass Ceramic is regarded as articles. Consist of the following ingredients.

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Substance	CAS#	Amount %
Zirconium dioxide ZrO_2	1314-23-4	90-95
Yttrium oxide Y_2O_3	1314-36-9	4-10
Aluminium Oxide Al_2O_3	1314-28-1	< 0.5
Other Oxide (trace elements)	N/A	<0.5

SECTION 4: First aid measures

4.1. Description of First Aid Measures

Inhalation	Cannot be inhaled as whole solid
Skin Contact	Not Required for first aid normally
Eye Contact	Not expected to contact eyes under normal usage. If contact eyes, Flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.
Ingestion	Ingestion is not a likely exposure under normal conditions. If ingested, Rinse mouth with water. Get medical attention if necessary. Never give anything by mouth to an unconscious person.
Advice the doctor	Treat symptomatically

SECTION 5: Fire Fighting Measures

5.1. Extinguishing media

Flammability of the Product	Incombustible
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	None known
Special hazards arising from the substance or mixture	No data available
Advice for firefighters	Wear self-contained breathing apparatus and standard firefighting equipment for firefighting if necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Not required

6.2. Environmental precautions

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No special environmental precautions required.

6.3. Methods and material for containment and cleaning up

No special measures required. Pick up or sweep up mechanically.

SECTION 7: Handling and storage

7.1. Precautions for Safe Handling

No special measures required. Safe for consumer during normal handling.

7.2. Conditions for safe storage, including any incompatibilities

No special storage necessary. Store in dry and cool place. Not a toy and must therefore be stored away from children.

SECTION 8: Exposure controls/personal protection

Exposure Limit	Not established for the finished product.
Engineering Controls	General industrial hygiene practice.
Personal Protective Equipment	
Respiratory Protection	No required.
Eyes Protection	No required
Body Protection	No required
Hand Protection	No required
Other Protection	No special other reactions required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties.

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Physical state:	Solid
Colour:	White
Odour:	Odorless
Ph	N/A
Melting Point/Range:	N/A
Boiling Point/Range:	N/A
Percentage Volability:	N/A
Flash Point	N/A
Density	~ 5.7 g/cm ³
Vapor Pressure	N/A
Vapor Density	N/A
Evaporation Rate & Reference	N/A
Solubility in Water	Insoluble in water
Explosion Limits in Air – Upper:	N/A
Explosion Limits in Air – Lower:	N/A

SECTION 10: Stability and reactivity

Stability	Stable under normal temperature and pressure
Hazardous reactions	None hazardous reactions known.
Incompability (Materials to Avoid)	Hydrofluoric acid.
Conditions to Avoid	No data available.
Hazardous Decomposition and/or Combustion Product	Other decomposition products – no data available. In the event of fire; see section 5

SECTION 11: Toxicological information

Acute Toxicity	No information available
Skin corrosion/irritation	No irritating effect.
Serious eye damage/irritation	No irritating effect.
Respiratory sensitization	No sensitizing effects known.
Skin sensitization	No sensitizing effects know.
Carcinogenicity	No known significant effects known.
Germ Cell Mutagenicity	No known significant effects known or harm
Reproductive Toxicity	No known significant effects or harm
STOT Single Exposore	No known significant effects or harm
STOT Repeated Exposure	No known significant effects or harm.
Aspiration Hazard	No aspiration hazard.
Potential Health Effects	This product is regarded as articles; no substances are intended to be released and will be saf efor consumer during normal handling.
Inhalation	No irritating effect

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Skin contact	Safe for direct skin contact
Eye contact	No irritating effect
Ingestion	Ingestion is unlikely under normal conditions

SECTION 12: Ecological information

Ecotoxicity	This product, when used under reasonable conditions and in accordance with the directions for use, should not present an environmental hazard.
Bioaccumulative potential	No data available
Persistence and Degradability	No data available
Results of PBT and VPvB Assessment	PBT: Not applicable, vPvB: Not applicable
Other adverse effects	No data available

SECTION 13: Disposal considerations Substance / Preparation

13.1 Waste treatment methods

Safe Handling and methods of disposal	Small quantity can be disposed of as household waste. As for big quantity. Recycle if possible. Observe all federal, state, and local environmental regulations. Offer surplus and non-recyclable products to a licensed disposal Company.
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SECTION 14: Transport information

ADR/RID Information	
ADR-UN Number:	Not classified for transport
ADR-Class:	Not classified for transport
ADR Shipping Name:	Not classified for transport
ADR Packing Group:	Not classified for transport
IATA/ICAO Information:	
IATA-UN Number:	Not classified for transport
IATA-Class	Not classified for transport
IATA-Shipping Name	Not classified for transport
IATA-Label	None
IATA-Packing Group	Not classified for transport
IATA-S.P.	None
IATA-ERG	None
IMO/IMDG Information	

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IMDG- Marine Pollutant	No
IMDG-UN Number	Not classified for transport
IMDG-Class	Not classified for transport
IMDG-Shipping Name	Not classified for transport
IMDG- Packing Group	Not classified for transport
IMDG-Storage Category	Not classified for transport

SECTION 15: Regulatory information

15.1. EU Regulations

Classification according to 67/548/EEC or 1999/45/EC

Not classified

Classification according to Regulation /EC No 1272/2008 (EU-GHS/CLP)

Not classified

15.2. US Regulations

TSCA Inventory Status: All of the components of this product are listed or exempt from the TSCA Inventory.

OSHA: None of the components in this product are considered highly hazardous by OSHA.

Health & Safety Reporting List: None of the components are on the Health & Safety Reporting List.

15.3. Canadian Regulations

DSL/NDL Status: All components of this product are on the Canadian DSL list.

SECTION 16: Other information

Abbreviations	Ph – Relates to hydrogen ion concentration – this value will relate to a scale of 0 – 14, where 0 is highly acidic and 14 is highly alkaline. OSHA – Occupational Safety and Health Administration NTP – National Toxicology Program IARC – International Agency for Research on Cancer CAS# - Chemical Abstract Service Number – used to uniquely identify chemical compounds ACGIH – The American Conference of Governmental Industrial Hygienists ADR- Agreement on Dangerous Goods by Road RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail
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	ICAO- International Civil Aviation Organization IMDG- International Maritime Dangerous Goods IMO- International Marine Organization
Further Information	-This safety data sheet was prepared in accordance with UN GHS Rev.6, The EU CLP REGULATION (EC) No 1272/2008, and ANSI Z400.1 -This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.