

深圳玉汝成口腔材料有限公司  
Shenzhen Yurucheng Dental Materials Co.,Ltd.

全瓷义齿用氧化锆瓷块

Zirconia Dental Ceramics(MSDS)

Date: April 4, 2023

File No: YRC-RD-WI-327 版本 A0

1 Identification of the substance and of the company

.Product name: *Zirconia Dental Ceramics*  
.Manufacturer/Supplier: *Shenzhen Yurucheng Dental Materials Co.,Ltd.*  
.Address: 101-201, Building 4, No. 1 Branch of Zhongcheng Life Science Park, No. 14 Zhongxing Road, Xiuxin Community, Kengzi Street Office, Pingshan District, Shenzhen, China  
.Tel: 0755-84622395  
.Fax: 0755-84622395  
.E-Mail: 447624743@qq.com  
.Information in case of emergency: *Shenzhen Yurucheng Dental Materials Co.,Ltd.*  
.Emergency Telephone Number: +86-17727849963  
.Contact: Fiya

2 Hazards identification



.NFPA ratings (scale 0 - 4)  
*Health = 0; Fire = 0; Reactivity = 0*

.Classification of the substance or mixture

.Classification according to GHS : *Not classified as dangerous goods.*  
.Classification according to Regulation (EC) No 1272/2008: *The product is not classified according to the CLP regulation.*  
.Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200):  
*The product is not classified according to OSHA Hazard Communication Standard (29 CFR 1910.1200).*  
.Labelling according to Regulation (EC) No 1272/2008: *Not applicable.*  
.Hazard pictograms: *Not applicable.*  
.Potential Health Effects:  
.Inhalation: *Product does not present an inhalation hazard under normal circumstances, If dust is generated in the production or processing, short term exposure to high dust levels could cause respiratory tract irritation, Long term exposure to high concentrations of dust should be avoided it will cause severe and permanent lung damage.*  
.Eyes: *Dust may cause eye irritation inflammation, Direct contact should be avoided to prevent physical damage.*  
.Skin: *No known acute effects of this product resulting from skin contact, but contact the edge of the broken easier to cut through the skin, in light of good industrial hygiene, exposure to any chemical should be kept to a minimum.*  
.Swallowed: *The product is not toxic, and in general it is not possible to be swallowed.*  
.CARCINOGENIC EFFECTS: *This material is not a known carcinogen. Classified NONE by NTP, NONE by OSHA, 3 (Not classifiable for humans) by IARC.*

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101,201,301, Building A, No. 35, Zhuqing Rd., Shijing Community, Shijing Street, Pingshan District, Shenzhen. Website:

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1. MUTAGENIC AND TERATOGENIC EFFECTS: *Not available.*

3 Composition/information on ingredients

Description: Mixture of substances listed below with additions.

Components Name	CAS Number	Weight Percent (%)	Air Exposure Limits (mg/m )	
			ACGIH TLV (mg/m)	OSHA PEL (mg/m)
Zirconium dioxide (ZrO <sub>2</sub> ) (ZrO <sub>2</sub> + HfO <sub>2</sub> + Y <sub>2</sub> O <sub>3</sub> )	1314-23-4	≥98.2	Not Established	Not Established
Iron oxide ( Fe <sub>2</sub> O <sub>3</sub> )	1309-37-2	≤0.3	Not Established	Not Established
Erbium Oxide(Er <sub>2</sub> O <sub>3</sub> )	12061-16-4	≤1.0	10 Total dust	15 Total dust
Other oxide	~~	≤0.5	Not Established	Not Established

4 First aid measures

Generally not hazardous in normal handling, however good laboratory practices should always be used.

Avoid long term exposure to skin or inhalation of dust.

Inhalation: *Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing*

*is difficult, give oxygen. Get medical aid.*

Eye: *Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.*

Skin: *Flush skin with plenty of water and cleaning & Decontamination Products for a few minutes. Get medical aid if there*

*was an injury or irritation develops and persists.*

Ingestion: *If victim is conscious and alert, Never give anything by mouth to an unconscious person. Get medical aid.*

5 Fire-fighting measures

General Information: *As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH*

*(approved or equivalent), and full protective gear. Non-combustible, substance itself does not burn.*

Flammable class: 0

Suitable extinguishing media: *Water, CO<sub>2</sub>, Dry Chemicals, Foam-Fog*

Fire/Explosion Hazards: *Negligible fire hazard when exposed to heat or flame.*

Other information: *Wear self-contained breathing apparatus and complete personal protective equipment when potential*

*for exposure to products of combustion exists.*

6 Accidental release measures

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.Person-related safety precautions: *Wear protective equipment.*  
.Measures for environmental protection: *No further relevant information available.*  
.Small Spill: *Normal products are solid without leakage risk.*  
.Large Spill: *Isolation accident area to prevent the leak products to be contaminated, And then to recycling collection the leak products.*

7 Handling and storage

The regulations relating to storage remises apply to workshop where the product is handled :

.Handling: *Removal of mobile products need to wear protective gloves when products for the brittle materials, handled with*

*care when handling Apply good manufacturing practice & industrial hygiene practices. Observe good personal hygiene,*

*and do not eat, drink or smoke whilst handling. Wear protective goggles and gloves when handling material. Clean cloths*

*must be worn. Observe all warnings and precautions listed for the product.*

.Storage: *Product is stability, the storage condition is generally not required. stored in relatively stable areas, to avoid collision*

*occurred on a hard object.*

8 Exposure controls/personal protection

.Engineering Controls: *Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels*

*below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to*

*airborne contaminants below the exposure limit.*

.Personal Protection: *Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.*

.Protective Gloves: *Protective Gloves.*

.Eye Protection: *When necessary Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's*

*eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.*

.Respirators: *No special respiratory protection is required for use of these products. If respiratory protection is*

*needed, use only protection applicable U.S. State regulations, or the EU standard.*

.Health measures: *Local exhaust ventilations may be necessary for some operation.*

9 Physical and chemical properties

.General Information

Form: *Solid (cylindrical)*

Color: *White*

Odor: *Odorless*

.Change in condition

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Melting point/Melting range: 2700°C

Boiling point/Boiling range: 5000°C

.Self-igniting:

*Product is not self-igniting:*

*Not available*

.Danger of explosion:

.Density:

.Relative density: 5.9 (Water=1)

.Vapor density: *Not available*

.Solubility in/Miscibility with

Water: *Insoluble*

.PH-Value: *Not available*

10 Stability and reactivity

.Chemical Stability: *Stable under normal temperatures and pressures.*

.Decomposition Products: *The following combustion products may be generated: Oxycarbide, metal oxide.*

.Materials with which substance is incompatible: *Products can chemical reactions with strong oxidizers, strong acids.*

.Hazardous Polymerizations: *Will not occur.*

.Special Remarks on Reactivity: *Not available.*

.Special Remarks on Corrosively: *Not available.*

11 Toxicological information

.Chronic Effects on Humans: *Causes damage to the following organs: Not available.*

.Other Toxic Effects on Humans: *Not available.*

.Toxicity to Animals: *Not available.*

.Special Remarks on Chronic Effects on Humans: *Not available.*

.Special Remarks on other Toxic Effects on Humans: *Not available.*

12 Ecological information

.Ecotoxicity: *Not available.*

.Products of Biodegradation: *None hazardous short term degradation products are not likely.*

.Water Danger/Protection: *Water hazard class 0 (German Regulation) (Self-assessment): No hazardous for water.*

13 Disposal considerations

.Waste Disposal Methods: *Disposal must be done as territory and /or local government regulations, Waste management*

*information will help to receive the best results.*

.Recommendation: *Must not be disposed together with household garbage. Do not allow product to reach sewage system.*

.Disposal of packaging: *Dispose of according to local regulations. Avoid disposing into drainage systems and into the environment.*

14 Transport information

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.UN Proper Shipping Name: *Not applicable.*  
.UN Number: *Not applicable.*  
.Packing Group: *Not applicable.*  
.Marine Pollutant: *No component of these products is designated as a Marine Pollutant.*  
.Hazardous Substance Reportable Quantity: *Not available.*  
.Special Provisions for Transport: *Not applicable.*  
.TDG Classification: *Not controlled under TDG (Canada).*  
.ADR/RID Classification: *Not controlled under ADR( Europe)*  
.IMO/IMDG Classification: *Not Controlled under IMDG.*  
.ICAO/IATA Classification: *Not controlled under IATA.*

15 Regulatory information

TSCA: *Most components are listed on the TSCA inventory.*

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

Chemical Test Rules: *None of the chemicals in this product are under a Chemical Test Rule.*

SARA Section 302 Extremely Hazardous Substances: *None of the chemicals in this product have a TPQ.*

Section 313: *No chemicals are reportable under Section 313.*

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

California Prop 65-California No Significant Risk Level: *None of the chemicals in this product are listed.*

REACH Regulation List of Substances of very high concern (SVHC): *None of the ingredients is listed.*

16 Other information

The contents and format of this MSDS are in accordance with ISO Commission Directive ISO11014-2009.

DISCLAIMER OF LIABILITY

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided

without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or

disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not

assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected

with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product.

If the product is used as a component in another product, this MSDS information may not be applicable.

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).*

RID: *Règlement international concernant le transport des marchandises dangereuses par chemin de fer*

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(Regulations

Concerning the International Transport of Dangerous Goods by Rail).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organization.

TDG: Transportation of Dangerous Goods Program of Canada.

DOT: U.S. Department of Transportation.

GHS: Globally Harmonized System of Classification and Labelling of Chemicals.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

ACGIH: American Conference of Governmental Industrial Hygienists.

NFPA: National Fire Protection Association.

TSCA: Toxic Substances Control Act.

LC50: Lethal concentration, 50 percent.

LD50: Lethal dose, 50 percent.

PBT: Persistent, Bioaccumulative and Toxic.

vPvB: very Persistent and very Bioaccumulative.

\*\*\*\*\*The End\*\*\*\*\*

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