

# Safety Data Sheet Grand 5D ML™ Multilayered Zirconia

Control number: UPQ/ZJ-32-0300

Version number: A/0

## **SECTION 1: Identification**

Revision date: 2022 Feb

<b>1.1 Product name</b>	Grand 5D ML™ – Multilayered Zirconia
<b>1.2 Product Code</b>	All Shades
<b>1.3 Product Use</b>	Dental Restorations
<b>1.4 Recommended use &amp; restrictions on use</b>	Intended Use: Zirconia based ceramic blocks for Crowns and Bridges Limitations on Use. For use only by dental technicians
<b>Distributor name and Address</b>	Medisco Group Corp. 211 Bowes Road, Vaughan, Ontario, L4K 1H8, Canada Phone: +1 877-922-2622 Email: mediscoinc@gmail.com   www.mediscogroup.com
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<b>Emergency No:</b>	Phone: +1 877-922-2622

## **SECTION 2: Hazards identification**

### **2.1 Hazards Indefication**

<b>2.1.1 Physical/Chemical Hazards:</b>	No Data Available Not classified as hazardous
<b>2.1.2 Environmental Hazards:</b>	No Data Available Not classified as hazardous
<b>2.1.3 Effect of Exposure</b>	No Data Available Not classified as hazardous
<b>2.1.4 Symptom of Exposure</b>	No Data Available Not classified as hazardous

### **2.2 Emergency Overview**

<b>2.2.1 Specific Physical Form:</b>	Solid Block or Slab
<b>2.2.2 Odor and Appearance:</b>	Odoreless
<b>2.2.3 Grade:</b>	White odorless block
<b>2.2.4 General Physical Form:</b>	Solid

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## 2.3 Potential Health Effects

<b>2.3.1 Eye Contact:</b>	Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.
<b>2.3.2 Skin Contact:</b>	Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.
<b>2.3.3 Inhalation:</b>	During grinding, scraping, sanding: Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.
<b>2.3.4 Ingestion:</b>	No health effects are expected.

## SECTION 3: Composition/ Information on Ingredients

<b>Ingredient</b>	<b>ZIRCONIA CERAMIC</b>
<b>C.A.S. No.</b>	66402-68-4

## SECTION 4: First Aid Measures

Primary routes of entry: Eye and skin contact; ingestion; inhalation & skin absorption. Medical condition Aggravated by Exposure: Eyes/skin hypersensitivity

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

<b>4.1 Inhalation:</b>	Move the person to fresh. If signs/symptoms persist, get medical attention.
<b>4.2 Ingestion:</b>	No health effects are expected. Rinse the mouth with water. If you feel unwell, get medical attention.
<b>4.3 Skin Contact:</b>	Wash affected area with soap and water. If signs/symptoms persist, get medical attention.
<b>4.4 Eye Contact:</b>	Flush with large amounts of water for a minimum of 15 minutes. Remove contact Lenses if possible and continue to rinse with water. If signs/symptoms persist, get medical attention.

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## SECTION 5: Fire-fighting measures

<b>5.1 Suitable extinguishing media</b>	In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish
<b>5.2 Special hazards arising from the substance or mixture</b>	No inherent in this product
<b>5.3 Special protective actions for fire-fighters</b>	No special protective actions for fire-fighters are anticipated

## SECTION 6: Accidental release measures

Advice for fire-fighters - If it is not very dangerous, move containers from a fire in the surrounding area. During extinction, wear a suitable heat-resistant protective suits against chemicals and self contained breathing apparatus

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Evacuate area. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice.
<b>6.2 Environmental precautions</b>	Avoid release to the environment.
<b>6.3 Methods and material for containment and cleaning up</b>	Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

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## SECTION 7: Handling and storage

<b>7.1 Handling &amp; Storage</b>	<p>Avoid prolonged or repeated skin contact. Avoid breathing of dust created by cutting, sanding, grinding or machining. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.</p> <p>Store in a dry and cool place</p>
<b>7.2 Others</b>	<p>Any dust from machining should be wet mopped or dry vacuumed.</p>

## SECTION 8: Exposure controls / Personal protection

<b>8.1 Eye/face protection:</b>	<p>Avoid eye contact. The following eye protection(s) are recommended: Safety Glasses with side shields.</p>
<b>8.2 Skin protection:</b>	<p>Avoid prolonged or repeated skin contact. Gloves not normally required. Wash thoroughly after handling</p>
<b>8.3 Prevention of Swallowing</b>	<p>Do not ingest.</p>
<b>8.4 Respiratory protection:</b>	<p>Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.</p>
<b>8.5 Engineering Controls</b>	<p>Provide adequate local ventilation.</p>

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## SECTION 9: Physical and chemical properties

<b>9.1 Information on basic physical and chemical properties</b>	General Physical Form:	Solid
	Specific Physical Form:	Solid Block or Slab
	Odor:	Odorless
	Odor threshold:	No Data Available
	pH:	No Applicable
	Freezing / Melting point:	Not Applicable
	Boiling Point:	Not Applicable
	Flash Point:	No flash point
	Evaporation rate:	Not Applicable
	Flammability (solid, gas):	Not Classified
	Density:	No Data Available
	Solubility in Water:	Not soluble in water
	Solubility- non-water:	No Data Available
	Vapor pressure:	Not Applicable
	Evaporation rate:	Not Applicable
	Autoignition temperature:	Not Applicable
	Decomposition temperature:	No Data Available
	Viscosity:	Not Applicable
	Molecular weight:	No Data Available
	Other data:	No

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## SECTION 10: Stability & Reactivity

No special protective actions for fire-fighters are anticipated.

<b>10.1 Reactivity</b>	This material is considered to be non reactive under normal use conditions.
<b>10.2 Chemical Stability</b>	Stable under normal use conditions.
<b>10.3 Possibility of hazardous reactions</b>	Hazardous polymerization will not occur.
<b>10.4 Conditions to avoid</b>	None known.
<b>10.5 Incompatible materials</b>	None known.
<b>10.6 Hazardous decomposition products</b>	None known.

## SECTION 11: Toxicological information

### 11.1 Information on Toxicological effects

Signs and Symptoms of Exposure Based on test data and/or information on the components, this material may produce the following health effects:

<b>11.1.1 Inhalation:</b>	Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.
<b>Skin Contact:</b>	Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.
<b>Eye Contact:</b>	Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.
<b>Ingestion:</b>	May be harmful if swallowed
<b>Gastrointestinal Irritation:</b>	Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.
<b>Toxicological Data</b>	If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

### Acute Toxicity

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Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE 2,000 - 5,000 mg/kg
ZIRCONIA CERAMIC	Dermal		LD50 estimated to be > 5,000 mg/kg
ZIRCONIA CERAMIC	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg

ATE = acute toxicity estimate

## Skin Corrosion/Irritation

Name	Species	Value
ZIRCONIA CERAMIC	Rabbit	No significant irritation

## Serious Eye Damage/Irritation

Name	Species	Value
ZIRCONIA CERAMIC	Rabbit	Mild irritant

## Skin Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

## Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

## Germ Cell Mutagenicity

Name	Route	Value
ZIRCONIA CERAMIC	In Vitro	Some positive data exist, but the data are not sufficient for classification

## Carcinogenicity

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Name	Route	Species	Value
ZIRCONIA CERAMIC	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification

## Reproductive Toxicity

### Reproductive and/or Developmental Effects

For the component/components, either no data are currently available or the data are not sufficient for classification.

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

For the component/components, either no data are currently available or the data are not sufficient for classification.

### Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
ZIRCONIA CERAMIC	Inhalation	pulmonary fibrosis	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL not available	
ZIRCONIA CERAMIC	Inhalation	pulmonary fibrosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL not available	occupational exposure

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.**



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## SECTION 12: Ecological information

If use properly, there are not environmental problems expected. Do not empty into surface water, ground water or drains.

<b>12.1 Ecotoxicity</b>	No Data Available
<b>12.2 Mobility:</b>	No Data Available
<b>12.3 Persistence / degradability:</b>	No Data Available
<b>12.4 Bioaccumulation potential:</b>	No Data Available
<b>12.5 Other adverse effects:</b>	No

## SECTION 13: Disposal considerations

### Disposal methods

Waste Disposal Method: Dispose of waste product in a sanitary landfill. As a disposal alternative, incinerate in an industrial or commercial facility in the presence of a combustible material. Since regulations vary, consult applicable regulations or authorities before disposal.

## SECTION 14: Transport Information

For Transport Information, please visit <http://udscanada.com>

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Contact Unique Dental Supply for more information.

## SECTION 16: Regulatory information

This safety data sheet 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.

