

## SAFETY DATA SHEET

### Endocem Zr

#### 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product Name:	Endocem Zr
Product Code:	DL1321 & DL1325 (5 pack)
Recommended Use:	ENDOCEM ZR is a next generation MTA with minimal discoloration and calcification.
Contact Information:	Dentalife Australia Pty. Ltd. Factory 9/505 Maroondah Highway Ringwood, VIC, 3134, Australia  Phone: +61 3 9879 1226
Emergency Telephone Number:	+61 3 9879 1226
Poisons Information Centre:	24 hour, 7 days a week in an emergency call: 13 11 26

#### 2. HAZARD IDENTIFICATION

NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Signal Word:	Not applicable
Hazard Pictograms:	Not applicable
Hazard Classifications:	Not applicable
Hazard Statement:	According to CLP regulation, this product is classified as: H315 - Causes skin irritation H317 - May cause an allergic skin reaction H318 - May cause serious eye damage. H335 - May cause respiratory irritation
Prevention Precautionary Statements:	Not applicable
Response Precautionary Statements:	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## SAFETY DATA SHEET

Poison Schedule: Not Applicable

### DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

## 3. COMPOSITION INFORMATION

COMPOSITION	CAS NO.	PROPORTION %
Natural Pure Cement -	Not applicable	50
Zirconium Dioxide	1314-23-4	50

## 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove to fresh air. Seek medical help if coughing and other symptoms do not subside. ("Inhalation" of gross amounts of Endocem ZR requires immediate medical attention.)

**Skin Contact:** Wash skin with cool water and pH-neutral soap or a mild detergent intended for use on skin. Seek medical treatment in all cases of prolonged exposure to wet material, freshly cured product, or prolonged wet skin exposure to the dry powder.

**Eye Contact:** Immediately flush eyes thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids, to remove all particles. Call physician immediately.

**Ingestion:** Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately.

**Indication of any immediate medical attention:** Treat symptomatically.

## SAFETY DATA SHEET

### 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water
Fire Fighting:	<p>Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Special protective equipment: A self-contained breathing apparatus is recommended to limit exposures to combustion products when fighting any fire. Use firefighting procedures suitable for surrounding area. <b>DO NOT approach</b> containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.</p>
Fire/Explosion Hazard:	<p>Non-combustible. Not considered a significant fire risk, however containers may burn.</p>

### 6. ACCIDENTAL RELEASE MEASURES

Minor Spills:	<p>Clean up spills immediately.</p> <p>Clean up any accidental spreading of significant quantities onto the floor without delay.</p> <p>Collect dry material using a scoop. Avoid actions that cause dust to become airborne.</p> <p>Avoid inhalation of dust and contact with skin.</p> <p>Wear appropriate personal protective equipment as described in Section 8.</p> <p>Scrape up wet material and place in an appropriate container.</p> <p>Allow the material to "dry" before disposal.</p> <p>Do not attempt to wash Endocem ZR down drains</p>
Personal Precautions, Protective Equipment and Emergency Procedures:	See section 8

## SAFETY DATA SHEET

### 7. HANDLING AND STORAGE

<b>Handling:</b>	<p>Promptly remove dusty clothing or clothing which is wet with product and launder before reuse. Wash thoroughly after exposure to dust or wet product mixtures or fluids.</p> <p>Use local exhaust ventilation to minimize airborne dusts.</p> <p>Avoid contact with ammonia, ammonia nitrate and chlorine or chlorine containing items</p>
<b>Storage:</b>	<p>Store in dry area.</p> <p>Normal temperatures and pressures do not affect the material.</p> <p>Store away from food and drinks.</p> <p>Do not store near ammonia, ammonia nitrate and chlorine or chlorine containing items</p>

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>National Occupation Exposure Hazards:</b>	Not available
<b>Biological Limit Values:</b>	As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.
<b>Engineering Controls:</b>	Use only in well ventilated areas.
<b>Personal Protection Equipment:</b>	<p><b>Respiratory protection:</b> Use local exhaust or general dilution ventilation to control dust levels below applicable exposure limits. Below applicable exposure limits or when dust causes irritation or discomfort, use MSHA/NIOSH approved respirators.</p> <p><b>Skin protection:</b> Wear protective clothing to prevent skin contact. promptly remove clothing dusty with dry ENDOCEM ZR or clothing dampened with moisture mixed with the product, and launder before reuse.</p> <p><b>Eye protection:</b> Wear safety glasses. In extremely dusty environments, wear tight-fitting unvented or indirectly vented goggles to avoid eye irritation or injury. contact lenses should not be worn when handling Endocem ZR.</p>

## SAFETY DATA SHEET

**Other Protection:** Overalls, P.V.C, apron, barrier cream, skin cleansing cream, eye wash unit.

**Hygiene Measures:** Keep away from food, drink, and animal feedstuffs. When using do not eat, drink, or smoke. Wash hands prior to eating, drinking, or smoking. Avoid contact with clothing. Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist, or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Solid Powder
Colour:	Gray
Odour:	No distinct odour
Solubility:	Slightly soluble (0.1 to 1.0%)
Specific gravity:	Not available
Relative Vapor Density (air=1)	Not available
Vapour Pressure (20 °C):	Not available
Flash Point (°C):	Not available
Flammability Limits (%):	None / Not applicable
Autoignition Temperature (°C):	Not available
Melting Point/Range (°C):	>1000
Boiling Point/Range (°C):	Not available
pH:	12 to 13
Viscosity:	Not available
Total VOC (g/Litre):	Not available

### 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under normal conditions
<b>Conditions to Avoid:</b>	Avoid unintentional contact with water to prevent premature setting.
<b>Incompatible Materials:</b>	Wet Endocem ZR is Alkaline (caustic/basic)  It is incompatible with - acids, ammonia, ammonia nitrate, ammonium salts, aluminum metal and chlorine.
<b>Hazardous Decomposition Products:</b>	Addition of water to the powder results in hydration and produces (caustic) calcium hydroxide.
<b>Hazardous Reactions:</b>	Hazardous polymerization will not occur.

## SAFETY DATA SHEET

### 11. TOXICOLOGICAL INFORMATION

No toxicological testing of this special product has been done.

**Chronic:** There are no known long term health effects expected.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No information available  
**Persistence and Degradability:** No data available  
**Bioaccumulation Potential:** No information available  
**Mobility:** No information available  
**Environmental Protection:** No information available

### 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all local, state and federal regulations.

Dispose of packaging should be disposed of in n approved landfill or incinerator.

### 14. TRANSPORT INFORMATION

**Road and Rail Transport:** NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS  
**Marine Transport:** NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS  
**Air Transport:** NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

### 15. REGULATORY INFORMATION

Zirconium Dioxide (CAS: 1314-23-4) is found on the following regulatory lists:

- Australian Inventory of Chemical Substances (AICS)

### 16. OTHER INFORMATION



## SAFETY DATA SHEET

Product is considered safe if used as intended.

Product is intended for professional dental use only.

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. No warranty, either expressed or implied, is made with respect to the information or the product to which the information refers. Each user must review this MSDS in the context of how the product will be handled and used in the workplace.

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