



MATERIAL SAFETY DATA SHEET

Product: Endocem ZR

Product Code: DL1321 & DL1325 (5 pack)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Endocem ZR

Recommended use: ENDOCEM ZR is a next generation MTA with minimal discoloration and calcification.

Contact Information Organisation	Location	Telephone
Dentalife Australia Pty Ltd	Factory 9 / 505 Maroondah Highway Ringwood VIC 3134 Australia	+61 3 9879 1226

Poisons Information Centre (24 hour, 7 days a week) in an emergency : 13 11 26

Chemcall 24 Hour Emergency Number (Australia) 1800 127 406

2. HAZARD IDENTIFICATION

Classification: Not a hazardous substance or mixture

Signal Word: None

Label Elements: Pictograms None

Hazard Statement: (H codes) None

Precautionary Statements: (P codes) None - Not a hazardous substance or mixture

Exposure of sufficient duration (either single or multiple) to moist product can cause serious, potentially irreversible tissue (skin or eye) destruction in the form of chemical (caustic) burns, including third-degree burns. The same type of tissue destruction can occur if wet or moist areas of the body are exposed for sufficient duration to the dry product.



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3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Composition</u>	<u>CAS No.</u>	<u>Proportion %</u>
Natural Pure Cement -	-	50
Zirconium Dioxide	1314-23-4	50

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure.

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

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

Skin : 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

Inhaled : 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.)

First Aid Facilities : Rubber or plastic gloves should be used when handling this solution. Eye wash facilities should be provided in the work place.

Advise to Doctor : No additional information available.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Water

Unusual fire and explosion hazards: None

Special protective equipment: A self-contained breathing apparatus is recommended to limit exposures to combustion products when fighting any fire.



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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Protective gloves and safety glasses should be worn when handling the solution, Avoid breathing in the dust. In the event of clouds of dust, wear a suitable dust mask.
- Environmental precautions:** Prevent from entering into drains, native or natural environments, ie river systems
- Methods and materials for containment and cleaning up:** Clean up spills immediately.
Clean up any accidental spreading of significant quantities onto the floor without delay.
Collect dry material using a scoop. Avoid actions that cause dust to become airborne.
Avoid inhalation of dust and contact with skin.
Wear appropriate personal protective equipment as described in Section 8.
Scrape up wet material and place in an appropriate container.
Allow the material to “dry” before disposal.
Do not attempt to wash Endocem ZR down drains.

7. HANDLING AND STORAGE

- **Handling**

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.
Use local exhaust ventilation to minimize airborne dusts.
Avoid contact with ammonia, ammonia nitrate and chlorine or chlorine containing items.

- **Storage**

Store in dry area.
Normal temperatures and pressures do not affect the material.
Store away from food and drinks.
Do not store near ammonia, ammonia nitrate and chlorine or chlorine containing items.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection: 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.

Skin protection: 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.



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Eye protection: 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid(Powder),
Colour: Gray
Odour.....: No distinct odor
Boiling Point (°C): N/A
Melting point (°C): >1000
Vapour Pressure: N/A
Specific Gravity: N/A
Flammability Limits (%) ...: None
pH in Water: 12 to 13
Solubility in Water (g/L) ...: Slightly soluble (0.1 to 1.0%)

10. STABILITY AND REACTIVITY

Stability: Stable

Conditions to avoid: Avoid unintentional contact with water to prevent premature setting.

Incompatability: Wet Endocem ZR is Alkaline (caustic/basic)
It is incompatible with - acids, ammonia, ammonia nitrate, ammonium salts, aluminum metal and chlorine.

Hazardous decomposition products: Addition of water to the powder results in hydration and produces (caustic) calcium hydroxide.

Hazardous reactivity (polymerization): Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

No toxicological testing of this special product has been done.

12. ECOLOGICAL INFORMATION

No recognized unusual toxicity to plants or animals.



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13. DISPOSAL CONSIDERATIONS

Disposal Dispose of in accordance with all local, state and federal regulations.
Dispose of packaging should be disposed of in an approved landfill or incinerator.

14. TRANSPORT INFORMATION

U.N. Number : None Dangerous Goods Class : None
Hazchem Code : None Subsidiary Risk : None
CAS Number : None Pack. Group: None

This product is not considered to be hazardous or a dangerous good within the meaning of transportation regulations.

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

Product is considered safe if used as intended.
Product is intended for professional dental use only.

This MSDS 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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