

## **SECTION 1: Identification of the substance/preparation and of the company/undertaking**

### **1.1- Product Identification**

Product Name : Zinc Oxide  
Product Code : ZNO  
Product Description : Powder for dental temporary filling material  
Packing Available : 100g

### **1.2- Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses : Powder for dental temporary filling material. Used by dental professional only.  
For dental use only.

### **1.3- Details of the supplier of the safety data sheet**

Manufacturer : Prime Dental Products Pvt Ltd.  
Address : Plot No. A-148, Road No. 24, MIDC, Wagle Industrial Estate, Thane  
(West)- 400604, Maharashtra, India  
Email : [info@prime-dental.in](mailto:info@prime-dental.in)  
Web : [www.prime-dental.in](http://www.prime-dental.in)

### **1.4- Emergency contact details**

Telephone : +919272235922 / +919272235925

## **SECTION 2: Composition/information on ingredients**

### **2.1- Mixture**

<b>Component</b>	<b>C.A.S.</b>	<b>EINECS</b>	<b>Classification*</b>	<b>Weight%</b>	<b>LD50</b>
Zinc Oxide	1314-13-2	NA	R50/53	>85	Ingestion (Rat): >5,000 mg/kg.

\*For wording of the listed 'R' phrases and 'H' statements see section 16

## **SECTION 3: Identification of Hazards**

**3.1- Hazard Description** : Not Applicable

**3.2- Information concerning to particular hazards to man and environment:** This product is not classed as flammable. Refer to the recommendations regarding the other products present Possibility of serious lesions to the eyes. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## **SECTION 4: First aid measures**

### **4.1- Description of first aid measures**

**Contact with skin:** Wash with soap and water. Get medical attention if irritation develops or persists.

**Contact with eyes:** Flush eyes with plenty of water. Get medical attention, if irritation persists.

**Ingestion:** Give water. DO NOT induce vomiting. Consult a physician if ingested in large amounts.

**Inhalation:** Not applicable

## **SECTION 5: Fire-Fighting Measures**

**5.1- Recommended extinguishers:** Water, CO2, foam, or chemical powders, depending on the materials involved in the fire.

**5.2- Extinguishers not to be used:** None in particular.

**5.3- Risks arising from combustion:** Avoid inhaling the fumes.

**5.4- Protective equipment:** Wear self-contained respiratory protective device.

## **SECTION 6: Accidental Release Measures**

Product Name: Zinc Oxide

**6.1 Measures for personal safety:** None in particular

**6.2 Measures for environmental protection:** Do not allow product to reach sewage system or any water courses.

**6.3 Measures for cleaning/collecting:** Pick up mechanically

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## **SECTION 7: Handling and Storage**

**7.1- Handling product:** Is intended for dental use only.

**7.2- Information for safe handling:** No special measures required. Observe normal care for working with chemicals.

**7.3- Information about fire and explosion protection:** No special measures required.

**7.4- Storage requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

**7.5- Information about storage in one common storage facility:** Not required.

**7.6- Further information about storage conditions:** Protect from heat and direct sunlight.

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## **SECTION 8: Exposure Controls/Personal Protection**

**8.1- Additional information about design of technical facilities:** No further data; see section 7.

**8.2- Ingredients with limit values that require monitoring at the workplace:**

Zinc Oxide -

OSHA- TWA (as Fume): 5

ACGIH- TWA (respirable): 2mg/m<sup>3</sup>, STEL (respirable): 10mg/m<sup>3</sup>

**8.3- Personal protective equipment:**

**a. Respiratory protection** : Not required.

**b. Protection of hands** : The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

**c. Eye protection** : Safety glasses

**d. Body protection** : Protective work clothing

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## **SECTION 9: Physical and Chemical Properties**

**9.1- Physical Properties:**

Form : Powder

Color : White to yellowish white

Odour : None

**9.2- Chemical Properties:**

Melting point/Melting range : Undetermined

Boiling point/Boiling range : Undetermined

Ignition temperature : Undetermined

Flash point : Undetermined

Self-igniting : Product is not self-igniting.

Danger of explosion : Product does not present an explosion hazard.

Density : Undetermined

Solubility in / Miscibility with Water : Undetermined

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## **SECTION 10: Stability and Reactivity**

**10.1- Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**10.2- Dangerous reactions:** No dangerous reactions known

**10.3 Dangerous decomposition products:** No dangerous decomposition products known

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## **SECTION 11: Stability and Reactivity**

### **11.1- Acute toxicity**

Zinc Oxide LD50: Ingestion (Rat): >5,000 mg/kg.

### **11.2- Primary irritant effect** : Nil

**11.3- On the skin** : May cause skin irritation

**11.4- On the eye** : May cause irritating effect.

**11.5- Sensitization** : No sensitizing effects known.

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## **SECTION 12: Ecological Information**

**12.1- Environmental data:** Can be toxic to aquatic environment.

Zinc Oxide LC50 - Oncorhynchus mykiss (rainbow trout) - 1.1 mg/l - 96.0 (Zinc oxide)

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## **SECTION 13: Disposal Consideration**

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

**13.2- Uncleaned Packaging Recommendation:** Disposal must be made according to official regulations.

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## **SECTION 14: Transport Information**

### **14.1- Air (ICAO/IATA)**

**Primary Hazard Class/Division** : No classification

### **14.2- Road (RID/ADR)**

**Primary Hazard Class/Division** : No classification

### **14.3- Vessel (IMO/IMDG/RID/ADR)**

**Primary Hazard Class/Division** : No classification

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## **SECTION 15: Regulatory Information**

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

**General comments** : Please refer to Medical Devices Directive 93/42/EEC.

**15.2- Chemical safety assessment** : See Section 11

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## **SECTION 16: Additional Information**

### **16.1- 'R' phrases and 'H' statement:**

R22: Harmful if swallowed

R41: Risk of serious damage to eyes

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**16.2- Prepared by:** Tanay Thakkar

**16.3- Manufacturer Disclaimer:** For Dental Use Only, Use as directed.

The information and recommendations are taken from sources (raw material MSDS(s) and manufacturer's knowledge) believed to be accurate; however, Prime Dental Products Pvt Ltd, makes no warranty with respect to the accuracy of the information or the suitability of the recommendation and assumes no liability to any user thereof. Each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

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