

**IDENTITY**

Trade Name: CODE:  
Pulpdent Root Canal Sealer Powder RK, RSP, RSP-4  
Pulpdent Zinc Oxide Powder USP Z-O

Chemical Description: Zinc oxide powder preparation

Product Use: Dental cement component

**SECTION I**

*Pulpdent Corporation*

80 Oakland Street

Watertown, MA 02472 USA

Date prepared: December 1, 2004

Phone Numbers:

24 Hr. Emergency: 1-800-535-5053

Customer Service: 1-800-343-4342/1-617-926-6666

**SECTION II - HAZARDOUS INGREDIENTS**

<i>Ingredients</i>	<i>CAS RN</i>	<i>PEL</i>	<i>TLV</i>
Zinc oxide	1314-13-2	5 mg/m <sup>3</sup>	10mg/m <sup>3</sup>

DOT HAZARD CLASSIFICATION: Not required

WHMIS CLASSIFICATION: D-2 (Possible irritation)

NFPA HMIS RATING: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

**SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS**

Specific Gravity: 5.65

Melting Point: 1975°C

Evaporation Rate: n/a

Solubility in water: Insoluble

Odor Threshold: odorless

Appearance and Odor: Fine, white, odorless powder

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

Flash Point: n/a Flammable limits: LEL n/a UEL n/a

Extinguishing Media: Any method suitable for extinguishing supporting fire.

Special Fire Fighting Procedures: None

Hazardous Combustion Products / Unusual Fire and Explosion Hazards: None

**SECTION V - REACTIVITY DATA**

Stability: Stable

Conditions to avoid: None

Incompatibility: Avoid chlorinated rubber, magnesium, strong acids and bases.

Hazardous Decomposition Products: None

Hazardous Polymerization: Will not occur

Conditions to avoid: None

**SECTION VI - HEALTH HAZARD DATA**

**Summary of Acute Hazards:** Zinc oxide dust which is not freshly formed, as in this product, is virtually innocuous when inhaled. Contact may be slightly irritating to eyes or skin.

**Route of Exposure**

Inhalation  
Eye Contact  
Skin Absorption  
Skin Contact  
Ingestion

**Signs & Symptoms**

None expected under normal conditions.  
May be mildly irritating.  
n/a  
May be mildly irritating.  
None known

**Summary of Chronic Hazards:** No cumulative effects known for long term exposure to dust. Dermatitis can occur in cases where there is prolonged exposure to zinc oxide dust and poor personal hygiene.

Carcinogenicity Not known to be a carcinogen.  
Teratogenicity, Mutagenicity, Reproductive Toxicity, Special Health Effects: None known.

**Emergency First Aid Procedures:**

Inhalation If exposed to zinc oxide dust above the TLV, move to fresh air. Seek medical advice.  
Eye contact Flush the affected eye with lukewarm, gently flowing water. If irritation persists, seek medical care immediately.  
Ingestion Seek medical advice for ingestion of large quantities.  
Skin contact Wash affected area thoroughly with mild soap and water. If irritation persists, seek medical advice.

**SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE**

**Handling / Storage Precautions:** Store in dry area in tightly closed container; avoid incompatible materials,

**Release or Spill:** Wear gloves and splash goggles. Scoop up spilled material into clean, dry disposal container and cover. Sweep and/or flush the area clean with water.

**Waste Disposal Method:** Follow all government regulations. **Other Precautions:** Wash hands after use.

**SECTION VIII - CONTROL MEASURES**

**Respiratory Protection:** Under normal conditions of use, the surgical mask worn by dental staff is adequate. For large quantities and where dust would be a nuisance, a dust mask or mechanical filter respirator is recommended.

**Ventilation:** Under normal conditions of use, no special ventilation is required. For large quantities and where dust would be a nuisance, provide local exhaust and/or general mechanical ventilation to prevent dust concentrations above approved limits.

**Protective Gloves:** Recommended. **Eye Protection:** Safety goggles are recommended.

**Other Protective Clothing or Equipment:** Emergency eye wash fountain

**Work/Hygienic Practices:** Wash hands after use.

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*The information presented herein is believed to be factual as it has been derived from the works of persons believed to be qualified experts. However, nothing contained in this information is to be taken as a warranty or representation for which Pulpdent Corporation bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.*

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