

# Eugenol Products

## MATERIAL SAFETY DATA SHEET

### ***IDENTITY***

**Trade Name: CODE:**

Kirkland Liquid PKL-01, PKL-02, PKL-16

PCA Liquid PL-01, PL-02, PL-16 Pulpdent Root Canal Sealer Liquid RSL, RSL-2

Eugenol E-02, E-04, E-16

**Chemical Description:** 2-Methoxy-4-(2 propenyl) phenol

**Product use:** Dental cement component

### ***SECTION I***

*Pulpdent Corporation* Phone Numbers:

80 Oakland Street 24 Hr. Emergency: 1-800-535-5053

Watertown, MA 02472 Customer Service: 1-800-343-4342 / 1-617-926-6666

USA

Date Prepared: January 1, 1999

### ***SECTION II - HAZARDOUS INGREDIENTS***

**Ingredients CAS RN PEL/TLV**

2-Methoxy-4-(2 propenyl) phenol 97-53-0 Not established

**DOT HAZARD CLASSIFICATION:** Non-hazardous

**WHMIS CLASSIFICATION:** D-2 (Irritation possible)

**NFPA HMIS RATING:** HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0

### **SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS**

Boiling Point: 253°C Specific Gravity: 1.067

Vapor Pressure: 0.01 Melting Point: -7.5°C

Vapor Density: >1.0 Evaporation Rate: n/a

Solubility in water: Negligible Odor Threshold: n/a

Appearance and Odor: Slightly yellow, oily liquid with clove odor

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

**Flash Point:** >93°C (Closed Cup) **Flammable limits:** Not established

**Extinguishing Media:** Water, foam, CO<sub>2</sub> and dry chemical.

**Special Fire Fighting Procedures:** Use standard procedures.

**Hazardous Combustion Products:** Burning liberates carbon monoxide, carbon dioxide and smoke.

### **SECTION V - REACTIVITY DATA**

**Stability:** Stable, even at elevated temperatures. **Conditions to avoid:** None

**Incompatibility:** Avoid strong oxidizing agents.

**Hazardous Decomposition Products:** None

**Hazardous Polymerization:** Does not occur **Conditions to avoid:** None

### **SECTION VI - HEALTH HAZARD DATA**

**Summary of Acute Hazards:** Minimal health hazard. May be irritating to skin or eyes.

#### **Route of Exposure Signs & Symptoms**

Inhalation None

Eye Contact May be irritating.

Skin absorption n/a

Skin Contact May be irritating. Prolonged or repeated contact may cause allergic dermatitis.

Ingestion LD<sub>50</sub> (oral rat): 2 g / kg. Prolonged ingestion at high levels may cause liver damage.

**Summary of Chronic Hazards:** Prolonged or repeated skin contact may cause allergic dermatitis. Prolonged ingestion at high levels may cause liver damage.

Carcinogenicity Not a carcinogen

Teratogenicity Not known

Mutagenicity Not known

Reproductive Toxicity Not known

### **Emergency First Aid Procedures:**

Inhalation n/a

Eye contact Irrigate with water for at least 10 minutes; seek medical advice if irritation persists.

Ingestion Rinse mouth with water. Give up to one half pint milk or water. Obtain medical advice immediately.

Skin contact Remove contaminated clothes. Wash affected area with water. If irritation persists, obtain medical advice.

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

**Handling and Storage Precautions:** Keep away from heat and flame. Keep container closed when not in use. Use with adequate ventilation.

**Steps to Be Taken if Material is Released or Spilled:** Small spills can be wiped up with cloth, paper, or standard absorbents (sand, sawdust, vermiculite, etc.).

**Waste Disposal Method:** Dispose of waste according to government regulations.

**Other Precautions:** None

## ***SECTION VIII - CONTROL MEASURES***

**Respiratory Protection:** None required

**Ventilation:** No special ventilation recommended under anticipated conditions of normal use.

**Protective Gloves:** Oil resistant gloves recommended.

**Eye Protection:** Splash-resistant safety glasses.

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

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

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Pulpdent Corporation, 80 Oakland Street, P.O. Box 780, Watertown, MA 02471-0780

# Zinc Oxide Powder Preparation

## Material Safety Data Sheet

***IDENTITY*** Trade Name: CODE:

Pulpdent Root Canal Sealer Powder RK, RSP, RSP-4

Pulpdent PCA Periodontal Powder PP-04, PP-16, PP-5L

Pulpdent Kirkland Periodontal Powder PK-04, PK-16, PK-5L

Pulpdent Zinc Oxide Powder Z-O

**Chemical Description:** Zinc oxide powder preparation

**Product Use:** Dental cement component

### ***SECTION I***

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USA

Date Prepared: January 1, 1999

### ***SECTION II - HAZARDOUS INGREDIENTS***

**Ingredients CAS RN PEL TLV**

Zinc oxide 1314-13-2 5 mg/m<sup>3</sup> 10 mg/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**

Boiling Point: n/a Specific Gravity: 5.65

Vapor Pressure: n/a Melting Point: 1975°C

Vapor Density: n/a 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 Signs & Symptoms**

Inhalation None expected under normal conditions.

Eye Contact May be mildly irritating.

Skin Absorption n/a

Skin Contact May be mildly irritating.

Ingestion 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 None known

Mutagenicity None known

Reproductive Toxicity None known

**Special Health Effects** None

**Emergency First Aid Procedures:**

**Inhalation** If exposed to zinc oxide dust above the TLV, move victim to fresh air. Seek medical advice.

**Eye contact** Flush the contaminated eye with lukewarm, gently flowing water. If irritation persists, obtain medical care immediately.

**Ingestion** Seek medical advice for 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 and Storage Precautions:** Store in a dry area, away from its incompatible materials, in tightly closed container,

**Steps to Be Taken if Material is Released or Spilled:** 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 of this product, 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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