

MATERIAL SAFETY DATA SHEET: EUGENOL & EUGENOL-BASED PRODUCTS

IDENTITY:

Trade Name:

Root Canal Sealer Liquid
Eugenol

Code:

RSL, RSL-2
E-02, E-04, E-16

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

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

Ingredients

None

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, CO₂ 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

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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. Allergic dermatitis from prolonged/repeated contact.
Ingestion	LD ₅₀ (oral rat): 2g / kg. Repeated ingestion of large amounts may cause liver damage.

Summary of Chronic Hazards: Prolonged/ repeated skin contact may cause allergic dermatitis. Repeated ingestion of large amounts may cause liver damage.

Carcinogenicity	Not a carcinogen
Teratogenicity	None known
Mutagenicity	None known
Reproductive Toxicity	None known

Emergency First Aid Procedures:

Inhalation	N/A
Eye contact	Irrigate with water for >10 minutes; seek medical care for persistent irritation.
Ingestion	Rinse mouth with water. Give up to one half pint milk or water. Obtain medical attention immediately.
Skin contact irritation	Remove contaminated clothes. Wash affected area with water. If 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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