

MATERIAL SAFETY DATA SHEET: CHEMLOCK R-BOND**IDENTITY:**

Trade Name: CHEMLOCK R-BOND
Chemical Description: Monomer and chemical activator in acetone base.
Product Use: Primer for CHEMLOCK Endodontic Post Cement

SECTION I

Pulpdent Corporation Phone Numbers:
 80 Oakland Street 24 Hr. Emergency: 1-800-535-5053
 Watertown, MA 02472 USA Customer Service: 1-800-343-4342/1-617-926-6666
 Date Prepared: January 1, 2004

SECTION II - HAZARDOUS INGREDIENTS

Ingredients	CAS RN	PEL/TLV
Acetone	67-64-1	TWA: 750 ppm / STEL: 1000 ppm

DOT HAZARD CLASSIFICATION: Class 3, PG II, Flammable Liquid / UN 1090
WHMIS CLASSIFICATION: B-2, Flammable Liquid / D-2, Possible Irritant
NFPA HMIS RATING: HEALTH: 1 FLAMMABILITY: 3 REACTIVITY: 2

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 56.5°C	Specific Gravity: 0.788	Vapor Pressure: 180 mm Hg
Melting Point: -94°C	Vapor Density: 2.0	Evaporation Rate: 6
Solubility in water: Very soluble	Odor Threshold: 20 ppm	
Odor: Characteristic, sweet mint-like acetone odor		
Appearance: Yellow liquid		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: -18°C **Flammable limits:** LEL 2.5% UEL 12.8%

Extinguishing Media: Use dry chemical, CO₂, alcohol resistant foam, water spray.

Special Fire Fighting Procedures: Use water to keep fire exposed containers cool. Firefighters should wear self-contained breathing apparatus in the positive pressure mode with a full face piece, when there is the possibility of exposure to smoke, fumes, or hazardous decomposition products.

Hazardous Combustion Products / Unusual Fire and Explosion Hazards: Heat, aging or contamination can lead to explosive polymerization.

SECTION V - REACTIVITY DATA

Stability: Stable under normal conditions of use and storage.

Conditions to avoid: Heat, sparks and flame, ungrounded metal containers, contamination. Use promptly.

Incompatibility: Acids, bases, amines, bromines, chloroform, hydrogen peroxide, strong oxidizers, plastics, rayon, ketones and acetaldehyde.

Hazardous Decomposition Products: Thermal decomposition may produce toxic oxides of carbon.

Hazardous Polymerization: Possible

Conditions to avoid: Heat, sparks and flame, contamination, storage for prolonged periods.

SECTION VI - HEALTH HAZARD DATA

Summary of Acute Hazards: Minimal health hazard under normal conditions of use and storage and in the quantities present in this product. May be irritating to eyes, skin, or respiratory tract. In large quantities and with prolonged exposure, acetone presents a significant health hazard.

Route of Exposure	Signs & Symptoms
Inhalation	May irritate nose, throat. Headache/fatigue with prolonged/repeated exposure.
Eye Contact	May irritate eyes.
Skin Absorption	Slightly toxic.
Skin Contact	Possible allergic skin reaction. Prolonged/ repeated exposure may cause skin to become red or dry.
Ingestion	Harmful if swallowed; nervous system depressant. LD ₅₀ (rat): 10.7 ml/kg

Summary of Chronic Hazards: Prolonged exposure over TLV may cause mucous membrane irritation, fatigue, weakness, headache, hematological and central nervous system changes, conjunctivitis.

Carcinogenicity Not known to be a carcinogen.

Teratogenicity None known

Mutagenicity None known

Reproductive Toxicity None known

Special Health Effects Persons with chronic respiratory or skin disease are at increased risk with prolonged exposure to acetone.

Emergency First Aid Procedures:

Inhalation Move to fresh air. Give oxygen, get medical care for difficult breathing.

Eye contact Flush the contaminated eye with flowing water for 15 min. If irritation persists, obtain medical care.

Ingestion For large quantities, dilute with water, but only if person is conscious. Give activated charcoal. See emergency physician.

Skin contact Wash affected area thoroughly with mild soap and water. If irritation develops or persists, seek medical advice.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE

Handling and Storage Precautions: Store tightly closed at room temperature in a dry area, away from incompatible materials. Avoid cross-contamination between parts. Avoid heat, sparks and flames. Ground metal containers. Empty containers may retain residual product and should be handled appropriately.

Steps to Be Taken if Material is Released or Spilled: For small quantities, as in this product: Wear gloves and splash goggles. Absorb spill with inert material, such as paper towels. Place all absorbent material in closed container away from heat, sparks, and flame. Wash area of spill with soap and water.

Waste Disposal Method: Follow all government regulations. Keep spills out of sewers, open bodies of water.

Other Precautions: Avoid contact with eyes, skin or clothing. Avoid breathing vapors. Wash hands after use.

SECTION VIII - CONTROL MEASURES

Respiratory Protection: Surgical mask is usually adequate. For exposure >TLV, a NIOSH-approved respirator.

Ventilation: No special ventilation is usually required. Large quantities of acetone require local exhaust.

Protective Gloves: Recommended.

Eye Protection: Safety glasses or splash goggles are recommended.

Other Protective Clothing or Equipment: Emergency eye wash fountain. Dental staff should wear lab coats.

Work/Hygiene Practices: Wash hands after use.

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