

**MATERIAL SAFETY DATA SHEET: HARDCORE**IDENTITY:

**Trade Name:** HARDCORE **Code:** HC, HC-R  
**Chemical Description:** Dual cure, barium glass-filled resin, containing mono- and di-functional monomers and oligomers, in base and catalyst pastes.  
**Product use:** Dental core build-up material.

SECTION I

Pulpdent Corporation

80 Oakland Street  
Watertown, MA 02472 USA**Phone Numbers:**24 Hour Emergency: 1-800-535-5053  
Customer Service: 1-800-343-4342/1-617-926-6666

Date prepared: September 1, 2008

SECTION II - HAZARDOUS INGREDIENTS

<i>Ingredients</i>	<i>CAS Number</i>	<i>PEL / TLV</i>
Methacrylate resin mixture	-----	Not established
Amorphous silica	112945-52-5	6 mg/m <sup>3</sup> / 10 mg/m <sup>3</sup>
Sodium fluoride	7981-49-4	2.5 mg/m <sup>3</sup> (as F)

DOT HAZARD CLASSIFICATION: Not regulated  
WHMIS CLASSIFICATION: D-2, Possible irritant or sensitizer  
NFPA HMIS RATING: HEALTH: 0 FLAMMABILITY: 0 REACTIVITY: 1

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Specific Gravity: 2.08 Vapor Pressure: <1 mm Hg  
Odor Threshold: Not available Solubility in water: Insignificant  
Appearance / Odor: *Part A-base*: Pale yellow, odorless paste; *Part B-catalyst*: Off white paste/ mild odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: Not flammable Flammable limits: Not established  
Extinguishing Media: Non-flammable material. Use method appropriate to extinguish supporting fire.  
Special Fire Fighting Procedures: Positive pressure self-contained breathing apparatus.  
Hazardous Combustion Products / Unusual Fire and Explosion Hazards: Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide and oxides of nitrogen and silicone.

SECTION V - REACTIVITY DATA

Stability: Stable  
Conditions to avoid: Elevated temperature > 27°C / 80°F and intense light.  
Incompatibility: None  
Hazardous Decomposition Products: Thermal decomposition or burning may produce carbon monoxide or carbon dioxide and oxides of nitrogen and silicone.  
Hazardous Polymerization: None  
Conditions to avoid: Elevated temperature > 27°C / 80°F and intense light.

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SECTION VI - HEALTH HAZARD DATA

Summary of Acute Hazards: Minimal health hazard under normal conditions of use.

<i>Route of Exposure</i>	<i>Signs &amp; Symptoms</i>
Inhalation	None
Eye Contact	May cause irritation
Skin Absorption	Not applicable
Skin Contact	May cause irritation or allergic reaction
Ingestion	Not a hazard in the quantities present in this product.

*Summary of Chronic Hazards:* Prolonged or repeated exposure may cause sensitization.

Carcinogenicity	Not considered a carcinogen.
Teratogenicity, Mutagenicity, Reproductive Toxicity:	None known
Special Health Effects	Certain susceptible individuals are more disposed to develop sensitization after prolonged or repeated contact.

*Emergency First Aid Procedures:*

Inhalation	Not applicable
Eye contact	Flush with running water for 15+ minutes; if irritation persists, seek medical care.
Ingestion	If swallowed in large quantities, seek medical care immediately.
Skin contact	Remove with alcohol or orange solvent. Wash with soap and water.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE

Handling / Storage Precautions: Keep both parts tightly capped in original containers. Protect base component from direct light. Re-cap immediately after use. Avoid cross-contamination and temperature extremes.

Spills: Wipe up with absorbent toweling. Wash away residue with alcohol or orange solvent.

Waste Disposal Method: Follow all government regulations. Other Precautions: None

SECTION VIII - CONTROL MEASURES

Respiratory Protection: None required under normal conditions of use.

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

Protective Gloves: Recommended.

Eye Protection: Safety glasses recommended.

Other Protective Clothing or Equipment: Emergency eye wash fountain should be close by and maintained.

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.*