

# Hema – Benz™ Desensitizer with Fluoride

## Hema–Benz™ SAFETY DATA SHEET

### SECTION I - PRODUCT IDENTIFICATION

Company: Healthdent International Inc.  
115 E. Ogden Ave. Suite 117-322  
Naperville, Illinois 60563  
Phone: 1-800-845-5172  
Prepared: April 15, 2015

### SECTION II - HAZARD(S) IDENTIFICATION

OSHA Permissible  
Exposure Limits: None  
Other Exposure Limit  
Used: None  
ACGIH Threshold  
Exposure Limit: None  
Chronic, Other: None  
Acute Overexposure: Irritation to eyes and skin.  
May cause chemical burn.  
Medical Conditions Generally Aggravated by  
Exposure: None  
Known Hygienic Practices: None  
Primary Route(s) of Exposure: Skin, eye, ingestion.

### SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

Material	% WGT	OSHA PEL	ACGIH TLV
Benzalkonium Chloride	1-5%	0.2 ppmv	0.2 ppmv
Hydroxyethyl Methacrylate	25-45	NA	NA
Sodium Fluoride	10 ppm	NA	NA
Water	Balance		

(ND = Not Determined NA = Not Applicable  
NL = Not Listed)

### FUNCTION:

Stops dentinal fluid shifts by polymerization with proteins within the tubuli, providing a physiological seal.

### SECTION IV - FIRST-AID MEASURES

Skin: Wash off affected area with soap and water.  
Ingestion: Seek immediate medical advice, carry container with label.  
Eyes: Rinse immediately with plenty of water and seek medical advice.

### SECTION V - FIRE-FIGHTING MEASURES

Flashpoint: >+ 104 °C  
Extinguishing Media: Carbon Dioxide, Foam, Dry Chemical  
Special Fire Fighting Procedures: None  
Flammable Limits: NA  
Unusual Fire and Explosion Hazards: None

### SECTION VI - ACCIDENTAL RELEASE MEASURES

Avoid contact with eyes, skin, and mucous membranes. If accidental contact occurs, FLUSH IMMEDIATELY WITH WATER. CONSULT PHYSICIAN IMMEDIATELY IF EYE CONTACT OCCURS. Keep away from children.

### SECTION VII - HANDLING AND STORAGE

Spill Management: Use absorbent to collect the material. Wash contaminated surfaces with soap and water.

### SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory: None required  
Eye Protection: Safety goggles  
Glove: Rubber/PVC gloves  
Other Clothing & Equipment: None  
Ventilation: None required

### SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure mm HG: NA  
Vapor Density (Air - 1): NA  
Evaporation Rate (Ether = 1): NA  
% Volatile by Volume: NA  
Solubility in Water: Soluble  
Boiling Point: NA  
Appearance: Clear liquid  
Odor: None

### SECTION X - STABILITY AND REACTIVITY

Stability: Stable  
Conditions to Avoid: Prolonged Extreme Heat  
Incompatibility: (Materials to avoid) Contact with iron.  
Hazardous Decomposition Products: None  
Hazardous Polymerization: None  
Conditions to Avoid: Extreme heat and free radical initiators.

### SECTION XI - TOXICOLOGICAL INFORMATION

Acute Toxicity: ID oral rat. 2,000 mg/kg  
Ames Test: Negative. Acrylates can cause sensitization reactions.

### SECTION XII - ECOLOGICAL INFORMATION

Waste may be considered as inert material.

### SECTION XIII - DISPOSAL CONSIDERATION

Spill Management: Use absorbent to collect the material. Wash contaminated surfaces with soap and water.

### SECTION XIV - TRANSPORT INFORMATION

Stable under normal conditions of use, transportation, and storage.

### SECTION XV - REGULATORY INFORMATION

510k # K953405

### SECTION XVI - OTHER INFORMATION

WARNING! Avoid contact with eyes, skin, and mucous membranes. If accidental contact occurs, FLUSH IMMEDIATELY WITH WATER. CONSULT PHYSICIAN IMMEDIATELY IF EYE CONTACT OCCURS. Keep away from children.

The data and information given in this SDS are accurate on the date of preparation. It does not indicate any warranty or representation. We disclaim all liability relating to use of this material since this is beyond our control.

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## Hema-Benz™

Desensitizer with Fluoride  
HG10011



### INSTRUCTIONS

**Hema-Benz™** is a superior desensitizing agent, to be placed under dental cements or other restorative materials – temporary, provisional or final. **Hema-Benz™** can be used for desensitization of amalgam restorations, either conventional or bonded. **Hema-Benz™** helps kill bacteria, alter nerve responses and aids bonding primers in penetrating etched dentin.

### GENERAL INFORMATION

**Hema-Benz™** contains Benzalkonium chloride and HEMA as well as a small amount of sodium fluoride as an added source of fluoride ion.

### WITH GLASS IONOMER AND ZINC PHOSPHATE CEMENTS

**Hema-Benz™** is very effective when applied to vital crown preparations prior to luting with these cements. It may also be used at the “prep” appointment to desensitize during temporization. When **Hema-Benz™** is used properly in conjunction with these cements, complete desensitization will result in nearly all preparations.

### WITH RESIN ADHESIVES

Most dentin bonding materials such as All Bond 2, Tenure, Optibond, Scotchbond MP, Photo Bond, etc. will benefit from **Hema-Benz™** application. The application of

**Hema-Benz™** reliably reduces post-op sensitivity by supporting the collagen framework for easier penetration of the adhesive, thus enhancing the dentin bond.

### WITH AMALGAMS

**Hema-Benz™** can be used to eliminate post-op sensitivity under standard amalgam restorations.

### NON-BONDED RESTORATIONS

1. Clean tooth prep area.
2. Dry with air (dryness is not critical).
3. Apply **Hema-Benz™** to dried tooth using brush or cotton pellet. Avoid soft tissue.
4. Wait 30 seconds, then dry with air.
5. Place restorative material such as amalgam, castings, etc. (Zinc phosphate and glass ionomer cements work well with **Hema-Benz™**.)

### BONDED APPLICATIONS

1. Clean tooth prep area.
2. Etch with 10 - 40% phosphoric acid for 15 to 30 seconds.
3. Rinse.
4. Dry with air (dryness is not critical).
5. Apply **Hema-Benz™**, using brush or cotton pellet. Avoid soft tissue.
6. Wait 30 seconds, then dry or leave moist, per manufacturer's instructions for the bonding agent.
- 7a. Direct restorations: Apply composite bonding agent and composite per manufacturer's instructions.
- 7b. Indirect restorations or sealing preparation: Apply composite bonding agent and luting resin per manufacturer's instructions.

### Before and after Bleaching and Whitening/After root

**Planing/Perio treatment:** Apply Desensitizer directly to the treated area with a gentle rubbing motion using a sterile cotton pellet.

### STORAGE AND SHELF LIFE

Expiration date is placed on each **Hema-Benz™** bottle. **Hema-Benz™** has a three year shelf life when kept below 25°C/77°F.