**Ferric Sulfate**

**Description:**
Patterson Brand Ferric Sulfate is a 15.5% ferric sulfate equivalent solution in an aqueous vehicle and is designed to be used with a micro applicator and Patterson Brand Knitted Displacement Cord. This hemostatic is intended to only be used topically, by a licensed practitioner.

**Indications:**
Patterson Brand Ferric Sulfate is indicated for the arrest of surface capillary bleeding and may be used for a number of operative procedures. The most common indication is as a hemostatic/reactive agent for crown and bridge procedures.

**Procedure:**

**Hemostasis:**
Use the micro applicator dipped in hemostatic to firmly rub solution against bleeding tissue until bleed stops. Hemostasis is achieved primarily by the formation of coagulum plugs within the capillary orifices. The use of firm, but not overly aggressive rubbing will remove excess coagulum.

Adequate hemostasis has been achieved when tissue does not resume bleeding upon thoroughly rinsing from the air/water syringe or upon placement of impression syringe tip in the sulcus. When hemostasis is achieved, the formation of new coagulum will cease.

**Cleaning:**
Once hemostasis is achieved, thoroughly wash the preparation and dry. This will prevent the ferric sulfate from compromising the impression.

**Packing:**
Select an appropriate size cord. Knitted cord will compress upon packing, therefore use one size larger cord than conventionally used with twisted or braided cords. Sizes #00, #0 and #1 are used for hemostasis around deep class III and V preparations and as a first cord in a two-cord retractive technique when placing veneers. Sizes #1 and #2 are used for retraction with size choice dependent on tissue firmness, friability, and degree of space desired.

Saturate the Patterson Brand knitted cord with hemostatic solution to optimize gingival tissue displacement. The interlocking loops of the knitted cord carry a greater volume of the hemostatic/displacement agent to the sulcus than conventional twisted or braided cords. This ensures that the cord will lock into place subgingivally, exerting a continuous gentle force on the gingival tissues to facilitate optimal sulcular space for subgingival access or impression material, without snagging the knitted loops. It is recommended that the knitted cord be placed wet or be saturated with hemostatic to optimize placement and tissue health. Once cord placement is complete, thoroughly rinse the area of extraneous hemostatic solution to minimize exposure to tissues. Allow 2-3 minutes for optimal tissue displacement.

Remove cord from sulcus before making impression. Wash and dry.

**Precautions:**

**Only use this hemostatic solution topically**

Do not mix this ferric sulfate hemostatic with epinephrine or any epinephrine impregnated displacement cord. This could result in a temporary blue coloration. Do not use this hemostatic in conjunction with other agents, mixing ferric sulfate with aluminum chloride will render a solution more acidic than either one.

Because of the presence of iron, a temporary discoloration of the gingival tissues may appear but will disappear within 24-48 hours. Care should be taken when using this product. The hemostatic solution is yellow-colored and may temporarily stain, but is water soluble. It will not permanently discolor or stain enamel, dentin or gingiva. Some base materials stain on the surface but with no adverse effects. Some fabrics may stain with this hemostatic.

Do not use this product on patients with know allergy to ferric sulfate or with chemical hyper-sensitivities.

Do not use self-etching primers or self-etching primer/bonding systems (e.g., Clearfil Linner Bond 2 and ED primers for Panavia®) immediately after using this hemostatic solution if resultant coagulum has contaminated the dentin and enamel surfaces to be bonded without first scouring the surfaces with pumice and thoroughly washing. This is not necessary with conventional bonding systems that have a stand-alone etching step. It is also not necessary when using conventional glass ionomer, zinc phosphate, or similar cements.
### MATERIAL SAFETY DATA SHEET

**Patterson Brand Ferric Sulfate**

**SECTION I - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

- **Material Name:** Patterson Brand Ferric Sulfate
- **Material Use:** Coagulative Hemostatic
- **Code:** May 14, 1998
- **Prepared by:** Steve Jensen, Chemist

**SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>Active Ingredients</th>
<th>Approximate Concentration %</th>
<th>LD(<em>{50})/LC(</em>{50})</th>
<th>C.A.S. N.A. or U.N. Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ferric Sulfate</td>
<td>15.5%</td>
<td>601 mg/kg mouse - oral</td>
<td>10028-22-5</td>
</tr>
</tbody>
</table>

**SECTION III - HAZARDS IDENTIFICATION**

- **AdvisoryPhrases:** Not defined.
- **Irritancy:** None.
- **Sensitization:** None.
- **Effects:** Not defined.
- **Odor:** Slight iron odor.
- **Odor:** None.

**SECTION IV - FIRST AID MEASURES**

- **Inhalation:** N/A
- **Skin Contact:** Wash thoroughly with soap and water.
- **Eye Contact:** Flush with lots of water and consult a physician.
- **Ingestion:** Give large volumes of water. Do not induce vomiting. Consult a physician if ingested in large amounts.

**SECTION V - FIRE-FIGHTING MEASURES**

- **Flammability:** N/A
- **Means of Extinction:** N/A
- **Respiratory Protection:** Not defined.
- **Eye Protection:** Protective eyewear.
- **Skin Protection:** Lab coat.

**SECTION VI - ACCIDENTAL RELEASE MEASURES**

- **Personal & Environmental Precautions:** Not defined.
- **Wipe up with cloth, soap, and water.**
- **Handling Precautions:** N/A
- **Storage Requirements:** Room temperature.

**SECTION VII - HANDLING AND STORAGE**

- **Wear:** Protective eyewear.
- **Wear:** Lab coat.

**SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- **Hand Protection:** Latex gloves.
- **Eye Protection:** Protective eyewear.
- **Skin Protection:** Lab coat.

**SECTION IX - PHYSICAL & CHEMICAL PROPERTIES**

- **Appearance:** Light amber
- **Odor:** Slight iron odor.
- **pH:** ~1
- **Solubility in Water:** Completely
- **Melting Point/Range:** None.

**SECTION X - STABILITY AND REACTIVITY**

- **Chemical Stability:** None.
- **Materials to Avoid:** None.
- **Stability Conditions:** None.
- **Hazardous Decomposition Products:** None.

**SECTION XI - TOXICOLOGICAL INFORMATION**

- **Route of Entry:** Skin Contact, Skin Absorption, Inhalation Route
- **Effects of Long-Term Exposure:** Skin: Slight irritation. Eye: Severe irritation.
- **Chronic Effects and Symptoms of Long-Term Exposure:** Skin: Slight irritation. Eye: Severe irritation.
- **Skin Irritation:** Moderate.

**SECTION XII - ECOLOGICAL INFORMATION**

- **Biodegradability:** Not defined.
- **Method of Waste Disposal:** In accordance with government regulations.
- **Further Details:** N/A

**SECTION XIII - DISPOSAL CONSIDERATIONS**

- **No limitations.**

**SECTION XIV - TRANSPORT INFORMATION**

- **No definitions.**

**SECTION XV - REGULATORY INFORMATION**

- **Controlled Product:** Yes

**Distributed by:**

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