SAFETY DATA SHEET

Root Repair Material

Date Issued: 08-12-2015
EDCO 15.0029 REV A

1 – IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Identifier</th>
<th>Trade Name</th>
<th>Product Identifier Number (REF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EndoSequence® Root Repair Material - BC RRM 1g 1P</td>
<td>Not applicable</td>
<td>5018264U0 5018264EU</td>
</tr>
<tr>
<td>EndoSequence® Root Repair Material - BC RRM 1.5g 2P</td>
<td>Not applicable</td>
<td>5018265U0 5018265EU</td>
</tr>
<tr>
<td>EndoSequence® Root Repair Material - BC RRM Putty 3g 1P</td>
<td>Not applicable</td>
<td>5018266U0 5018266EU</td>
</tr>
<tr>
<td>EndoSequence® Root Repair Material - BC RRM Fast Set Putty 1P</td>
<td>Not applicable</td>
<td>5024200U0 5024200EU</td>
</tr>
</tbody>
</table>

Product Use
Root canal repair and filling material.

Restrictions on Use
For dental use only.

Supplier
Brasseler U.S.A. Dental, LLC
One Brasseler Boulevard
Savannah, Georgia 31419, USA
Tel: 1-800-841-4522

Emergency Contact
For Chemical Emergency ONLY (spill, leak, fire, exposure, or accident) call:
CHEMTREC
Tel: 1-800-262-8200 (USA) +1 703-741-5500 (International)

2 – HAZARDS IDENTIFICATION

GHS Classification and WHMIS 2015

<table>
<thead>
<tr>
<th>Health Hazard</th>
<th>Hazard Category</th>
<th>Signal Word</th>
<th>Hazard Statement</th>
<th>Pictogram</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin irritation</td>
<td>2</td>
<td>Warning</td>
<td>H315 Causes skin irritation</td>
<td>☠</td>
</tr>
<tr>
<td>Eye Irritation</td>
<td>2A</td>
<td>Warning</td>
<td>H319 Causes serious eye irritation</td>
<td>☠</td>
</tr>
</tbody>
</table>

Precautionary Statements

P264 Wash hands thoroughly after handling.
P280 Wear protective gloves, protective clothing, eye protection and face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P321 Specific treatment: Wash skin thoroughly with cool water and pH-neutral soap or a mild detergent intended for use on skin.
P332 + P313 If skin irritation occurs: Get medical advice / attention.
P337 + P313 If eye irritation persists: Get medical advice / attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P310 + P331 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Inhalation
Irritation to the moist mucus membranes of the nose, throat and upper respiratory system.
Pre-existing upper respiratory and lung diseases may be aggravated.

Personal Protective Equipment

Respiratory Protection
None of the components of this material are toxic or reactive gases. For use in special applications, consult the user’s guide or the manufacturer’s instructions.

Eye Protection
None of the components of this material are toxic or reactive substances. For use in special applications, consult the user’s guide or the manufacturer’s instructions.

Skin Protection
None of the components of this material are toxic or reactive substances. For use in special applications, consult the user’s guide or the manufacturer’s instructions.

3 – COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS #</th>
<th>EC Number</th>
<th>Index No.</th>
<th>REACH Registration No.</th>
<th>Concentration (wt%)</th>
<th>Chemical Name</th>
<th>Classification According to 67/548/EEC</th>
<th>Classification According to Regulation (EC) No. 1278/2008 (CLP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12168-85-2</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>30.0 – 36.0%</td>
<td>Tricalcium Silicate</td>
<td>Irritant: Xi; R36 R38</td>
<td>Skin Irrit. 2 H315/E319</td>
</tr>
<tr>
<td>1314-23-4</td>
<td>215-227-2</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>15.0 – 18.0%</td>
<td>Zirconium Oxide</td>
<td>Not applicable Proprietary</td>
<td></td>
</tr>
<tr>
<td>1314-61-0</td>
<td>215-238-2</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>12.0 – 15.0%</td>
<td>Tantalum Oxide</td>
<td>Not applicable Proprietary</td>
<td></td>
</tr>
<tr>
<td>10034-77-2</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>9.0 – 13.0%</td>
<td>Dicalcium Silicate</td>
<td>Not applicable Proprietary</td>
<td></td>
</tr>
<tr>
<td>7778-18-9</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>3.0 – 8.0%</td>
<td>Calcium Sulfate (anhydrous)</td>
<td>Not applicable Proprietary</td>
<td></td>
</tr>
</tbody>
</table>

Product Additives: Fillers:
- None are classified as hazardous to the health or environment and do not contribute to the classification of the product.
- The specific chemical identity and the exact concentration of the fillers in the product have been withheld as per Confidential Business Information (CBI).

For dental use only.

Restrictions on Use
For dental use only.

4 – FIRST AID MEASURES

Route of Exposure

<table>
<thead>
<tr>
<th>Most Important Symptoms/Effects, Acute and Delayed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Contact</td>
</tr>
</tbody>
</table>
| Wash skin thoroughly with cool water and pH-neutral soap or a mild detergent intended for use on skin.
| Wear gloves to remove any contaminated clothes and shoes from the individual.
| Get medical attention in all cases of prolonged exposure to the product, freshly cured product or prolonged wet skin exposure to the product. |
| Eye Contact |
| Severe irritation and/or inflammation. |
| Blindness in severe cases. |
| Immediate rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. |
| Continue rinsing, include under lids to remove all particles. |
| Get medical attention. |
| Inhalation |
| Irritation to the moist mucus membranes of the nose, throat and upper respiratory system. |
| Pre-existing upper respiratory and lung diseases may be aggravated. |
| Move exposed individual from the area into fresh air. |
| Get medical attention if coughing and other symptoms do not subside. |
| Ingestion |
| Internal discomfort or irritation to the digestive tract. |
| Do NOT induce vomiting. |
| If individual is conscious, use water to rinse out the mouth and have the individual drink plenty of water. |
| If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Observe the individual carefully. |
| Never give anything by mouth to an unconscious individual (i.e. showing signs of being sleepy or with reduced awareness). |
| Get immediate medical attention. |
5 – FIRE-FIGHTING MEASURES

Conditions of Flammability
Not flammable or combustible.

Suitable Extinguishing Media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media
There is no restriction on the type of extinguisher.

Specific Hazards Arising From the Product
None known.

Special Protective Actions Equipment and Precautions for Fire-Fighters
- Wear self-contained breathing apparatus and protective gloves for firefighting.
- Equipment should be thoroughly decontaminated after use.
- Prevent spillage from entering drains or water courses.

6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
- Wear appropriate personal protective equipment to prevent contamination of skin, eyes and personal clothing (see Section 8).
- Avoid contact with the product:
  - Avoid contact to the product, freshly cured product or prolonged wet skin exposure to the product.
  - Avoid actions that cause dried product to become airborne.
  - Avoid inhalation of dried product dust.
- Use a scoop or moist paper towel(s) to clean up spilled product.

Environmental Precautions
- Prevent further spillage.
- Keep product away from drains, surface and ground water.

Methods and Materials for Containment and Cleaning Up
- Use a scoop or moist paper towel(s) to clean up spilled product. Dispose of in a suitable sealed container.
- Dispose of waste product according to local state and federal regulations.
- Cover drains.
- Wash spilled area with large amounts of water and dry thoroughly.

7 – HANDLING AND STORAGE

Precautions for Safe Handling
- Avoid contact with skin and eyes.
- Avoid inhalation of dried product.
- Wear personal protective equipment.
- Remove contaminated clothing and personal protective equipment before entering eating areas.
- Wash hands after handling product.
- Remove contaminated clothing and personal protective equipment. Wash before reuse.
- Avoid contact with ammonia, ammonia nitrate, chlorine or chlorine containing items.

Conditions for Safe Storage
- Air and moisture sensitive.
- Store at room temperature in a dry area.
- Store tightly closed in the original packaging. Keep dry until used.
- Protect from excessive heat and cold.
- Protect packaging against physical damage.
- Store away from incompatible materials, and from foodstuffs and beverages.
- Do not store near ammonia, ammonia nitrate, chlorine or chlorine containing items.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Appropriate Engineering Controls
Use and store in a well-ventilated area.

Individual Protections Measures, Such as Personal Protective Equipment (PPE)

Eye / Face Protection
- Safety glasses with side shields.
- Tightly sealed safety goggles.
- Face shields.
- Contact lenses should not be worn.

Skin Protection
- Glove material has to be impermeable and resistant to the product:
  - Exam gloves: nitrile rubber or latex.
  - Recommended thickness of the glove material: ≥0.38mm
- Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product.
- Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practice.
- Wash and dry hands after handling product.
- Lightweight impermeable protective work clothing (lab coat), as appropriate, to prevent skin contact.
- Remove contaminated clothing and personal protective equipment before entering eating areas.
- Remove contaminated clothing and personal protective equipment. Wash before reuse.

Respiratory Protection
- Surgical face mask.
- Handle product in a well-ventilated area.

Thermal Hazards
Not applicable

Hygiene Measures
- Handle in accordance with good industrial hygiene and safety practice.
- Keep away from foodstuffs and beverages.
- Wash hands before breaks and at the end of work.

9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Solid (thick paste / putty)

State
Upper / Lower Flammability or Explosive Limits
Not available

Odour
No distinct odour

Vapour Pressure
Not available

Odour Threshold
Not available

Vapour Density
Not available

pH
>12 (Basic)

Relative Density
Not available

Melting Point /Freezing Point
Not available

Solubility (with water)
Slightly soluble

Initial Boiling Point and Boiling Range
Not available

Partition Coefficient: n-octanol / water
Not available

Flash Point
Not available

Auto-ignition Temperature
Not available

Evaporation Rate
Not available

Decomposition Temperature
Not available

Flammability
Not available

Viscosity
Not available
10 – STABILITY AND REACTIVITY

Reactivity
- Contact with water will result in hydration of the product and produces (caustic) calcium hydroxide.

Chemical Stability
- Stable under recommended storage conditions.
- Keep dry.

Possibility of Hazardous Reactions
Not available

Conditions To Avoid
Avoid unintentional contact with water to prevent premature setting/curing; contact will result in hydration of the product and produces (caustic) calcium hydroxide.

Incompatible Materials
- Incompatible with acids, ammonia, ammonia nitrate, ammonium salts, aluminum metal and chlorine.

Hazardous Decomposition Products
- Decomposition will not spontaneously occur.
- Contact with water will result in hydration of the product and produces (caustic) calcium hydroxide.

11 – TOXICOLOGICAL INFORMATION

Emergency Overview
This product is a white paste that poses little immediate hazard. A single-term exposure to the paste is not likely to cause serious harm. However, exposure of sufficient amount and duration (either single or multiple) to the moist product can cause serious irritation to the skin and eyes in the form of chemical (caustic) burns. Similar tissue damage can occur if wet or moist areas of the body are exposed for sufficient duration to the product.

Numerical Measures of Toxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>ACGIH</th>
<th>OSHA PEL</th>
<th>LD₅₀</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tricalcium silicate</td>
<td>12168-85-3</td>
<td>10 mg/m³</td>
<td>5 mg/m³</td>
<td>Not available</td>
</tr>
<tr>
<td>Dicalcium silicate</td>
<td>10034-77-2</td>
<td>10 mg/m³</td>
<td>5 mg/m³</td>
<td>Not available</td>
</tr>
<tr>
<td>Zirconium oxide</td>
<td>1314-23-4</td>
<td>5 mg/m³</td>
<td>5 mg/m³</td>
<td>TWA</td>
</tr>
<tr>
<td>Tantalum pentoxide</td>
<td>1314-61-0</td>
<td>5 mg/m³</td>
<td>5 mg/m³</td>
<td>TWA</td>
</tr>
<tr>
<td>Calcium sulfate (anhydrous)</td>
<td>7778-18-9</td>
<td>10 mg/m³ (TWA)</td>
<td>15 mg/m³ total dust</td>
<td>No LD₅₀ / LC₅₀</td>
</tr>
</tbody>
</table>

Routes of Exposure
- Skin Contact: Skin irritation, drying, cracking or fissuring of the skin.
- Eye Contact: Severe irritation and/or inflammation.
- Inhalation: Irritation to the moist mucus membranes of the nose, throat and upper respiratory system.
- Ingestion: Internal discomfort or irritation to the digestive tract.

Symptoms Related to Physical, Chemical and Toxicological Characteristics
- Skin irritation, drying, cracking or fissuring of the skin.
- Severe skin damage in the form of chemical (caustic) burns.
- Severe breathing difficulties.
- Blindness in severe cases.
- Pre-existing upper respiratory and lung diseases may be aggravated.
- Muscular membranes of the nose, throat and upper respiratory system.
- Ill effects are possible if large quantities are consumed.

Delayed and Immediate Effects
- Chronic Effects from Short and Long-Term Exposure
- Target Organ(s)
- Skin irritation (Category 2)
- Eye irritation (Category 2)
- Skin irritation (Category 2)
- Pre-existing upper respiratory and lung diseases may be aggravated.
- Muscular membranes of the nose, throat and upper respiratory system.
- Digestive system

12 – ECOLOGICAL INFORMATION

Toxicity
- Not available

Persistence and Degradability
- Not available

Bioaccumulative Potential
- Not available

13 – DISPOSAL CONSIDERATIONS

Disposal Methods
- For the safe handling of disposing of this product, wear appropriate personal protective equipment to prevent contamination of skin, eyes and personal clothing (see Section 8).
- Dispose of waste product or contaminated product in a suitable sealed container.
- Dispose of product according to local state and federal regulations.

Physical / Chemical Properties Affecting Disposal Options
- No known precautions.

14 – TRANSPORT INFORMATION

UN Number
- Not applicable, the product is not classified as Dangerous Goods.

UN Proper Shipping Name
- Not applicable, the product is not classified as Dangerous Goods.

Transport Hazard Class(es)
- Not classified as a transport hazard in accordance with the UN Model Regulations.

Packaging Group
- Not applicable, the product is not classified as Dangerous Goods.

Environmental Hazards
- Product is not known as a marine pollutant according to the IMDG Code.
- Product is not an environmental hazard according to the UN Model Regulations, ADR, RID and ADN.

15 – REGULATORY INFORMATION

- This device is classified as an irritant:
  - Skin irritation (Category 2)
  - Eye irritation (Category 2)

Status under USDOL-OSHA Hazard Communication Rule, 29 CFR 1910.1200:
- The ingredients in this product (calcium silicate compounds, tantalum pentoxide, zirconium oxide and calcium sulfate (anhydrous)) are considered to be “hazardous chemicals” under this regulation.

16 – OTHER INFORMATION

Date of Preparation
- 08-12-2015

This product should be used according to manufacturer’s directions. Safety precautions presented above may not be adequate for all individuals or situations. Inexperienced product users should obtain proper training before using or handling this product. Users have the responsibility to comply with all laws and procedures applicable to the products' safe handling and use, determine the suitability of the product for its intended use, and understand possible hazards associated with mixing this product with other materials. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. The supplier and/or manufacturer of this product shall not be held liable for damage resulting from handling, misuse or from contact with this product.