MATERIAL SAFETY DATA SHEET

SECTION I – Product/Company Information

1.1 Product Trade Name: DYCAL® Radiopaque Calcium Hydroxide Composition
1.2 Part (Item) Number: 623400 – 623452 Dentin and Ivory Shades - Base Pastes
1.3 Division Name: DENTSPLY Caulk
1.4 Address: 38 West Clarke Avenue
   City State Zip: Milford DE 19963-0359
   Internet Address: http://www.caulk.com
1.5 Emergency Telephone Number: (800) 424-9300 (Chemtrec)
1.6 Telephone Number for Information: (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)
1.7 Date Prepared: 12/08/97 Date Revised 12/08/00

SECTION II – Hazardous Ingredients/Identity Information

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Tungstate</td>
<td>5 mg/m³</td>
<td>5 mg/m³</td>
<td>7790-75-2</td>
<td>&lt; 20%</td>
</tr>
<tr>
<td>Zinc Oxide</td>
<td>10 mg/m³</td>
<td>10 mg/m³</td>
<td>1314-13-2</td>
<td>&lt; 15%</td>
</tr>
<tr>
<td>Disalicylate ester of 1,3 butylene glycol</td>
<td>N.E.</td>
<td>N.E.</td>
<td>73240-13-8</td>
<td>&lt; 50%</td>
</tr>
</tbody>
</table>

SECTION III – Physical/Chemical Characteristics

3.1 Boiling point: N. A. 3.6 Specific Gravity: 2.0 g/cm³
3.2 Vapor pressure: N. A. 3.7 Melting Point: N. A.
3.3 Vapor density: N. A. 3.8 Evaporation rate: N. A.
3.4 Solubility in water: Not Soluble
3.5 Appearance and odor: Tan or Dark beige colored paste with characteristic odor of wintergreen.

SECTION IV - Fire and Explosion Hazard Data

4.1 Flash point (method used): N. A.
4.2 Flammability (explosive limits): LEL: N.E.UEL: N.E.
4.3 Extinguishing media: Sand, foam, carbon dioxide, or dry chemical.
4.4 Special fire fighting procedures: Water may be ineffective unless used as a fine spray or fog. Use water spray to cool fire exposed containers. Firefighters should wear full protective clothing including a self contained breathing apparatus.
4.5 Unusual fire and explosion hazards: During a fire, irritating gasses from the decomposition of the Dycal ester may be present.

SECTION V – Reactivity Data

5.1 Stability: Unstable: Stable: X
5.2 Conditions to avoid (stability): Strong bases, such as calcium hydroxide may cause the material to harden.
5.3 Incompatibility (materials to avoid): Strong bases.
5.4 Hazardous decomposition or byproducts: Oxides of Zinc
5.5 Hazardous polymerization: May occur: Will not occur: X
5.6 Conditions to avoid (polymerization): Strong bases
SECTION VI - Health Hazard Data

6.1 Route(s) of entry: Inhalation?: No  Skin?: Yes  Ingestion?: Possible
6.2 Health hazards (acute and chronic): Ingestion may cause local irritation to soft tissue. Eyes: severe irritation caused by reaction of powder with water. Skin: May adhere to tissue. May dry the skin causing irritation.
6.3 Carcinogenicity: NTP?: Not listed  IARC monographs?: Not listed  OSHA Regulated?: No
6.4 Signs and symptoms of exposure: Eyes: severe irritation caused by reaction of powder with water. Skin: May adhere to tissue. May dry the skin causing irritation.
6.5 Medical conditions generally aggravated by exposure: Open wounds or sores of the skin.
6.6 Emergency first aid procedures: Eyes: In case of eye contact, flush with flowing water for 15 minutes and call physician. Skin: Wash thoroughly with soap and water. Call physician if irritation persists.

SECTION VII – Precautions for Safe Handling and Use

7.1 Steps to be taken in case material is released or spilled: Wipe up with clean cloth or paper towel. Place in an appropriately marked container. Scrub area with alcohol.
7.2 Waste disposal methods: Dispose of in accordance with Federal, State and Local regulations.
7.3 Precautions to be taken in handling and storage: Store at room temperature. Avoid storage above 50°C(122°F). Store away from food and beverages.
7.4 Other precautions: Observe normal warehouse handling procedures.

SECTION VIII – Control Measures

8.1 Respiratory protection: None required during normal use of this product.
8.2 Ventilation: None required during the normal intended use of this product. Local exhaust can be used to keep vapors below threshold level.
8.3 Protective gloves: Rubber gloves.
8.4 Eye protection: Safety goggles.
8.5 Other protective clothing or equipment: Chemically resistant apron or other impervious clothing.
8.6 Work/Hygienic practices: Observe normal care when working with chemicals.

NFPA HAZARD CLASSIFICATIONS

<table>
<thead>
<tr>
<th>Health</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>0</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
<tr>
<td>Specific Hazard</td>
<td>N.A.</td>
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NFPA - National Fire Protection Association
N.A. - Not Applicable
N.E. - Not Established
MATERIAL SAFETY DATA SHEET

SECTION I – Product/Company Information

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<tr>
<td>Calcium Hydroxide</td>
<td>5 mg/m³</td>
<td>5 mg/m³</td>
<td>1305-62-0</td>
<td>&lt; 55 %</td>
</tr>
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<td>Zinc Oxide</td>
<td>10 mg/m³</td>
<td>10 mg/m³</td>
<td>1314-13-2</td>
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</tr>
<tr>
<td>Titanium Dioxide</td>
<td>10 mg/m³</td>
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<td>13463-67-7</td>
<td>&lt; 8 %</td>
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SECTION III – Physical/Chemical Characteristics

3.1 Boiling point: N. A.
3.2 Vapor pressure: N. A.
3.3 Vapor density: N. A.
3.4 Solubility in water: Not Soluble
3.5 Appearance and odor: Light Beige or Off-White colored paste with slight odor.
3.6 Specific Gravity: 1.8 g/cm³
3.7 Melting Point: N. A.
3.8 Evaporation rate: N. A.

SECTION IV - Fire and Explosion Hazard Data

4.1 Flash point (method used): N. A.
4.2 Flammability (explosive limits): LEL: N. A. UEL: N. A.
4.3 Extinguishing media: Sand, foam, carbon dioxide, dry chemical.
4.4 Special fire fighting procedures: Fire fighter should wear full protective clothing including a self-contained breathing apparatus.
4.5 Unusual fire and explosion hazards: During a fire, irritating gases from the decomposition of the plasticizer may be present.

SECTION V – Reactivity Data

5.1 Stability: Unstable: Stable: X
5.2 Conditions to avoid (stability): High humidity and elevated temperatures over 50°C(122°F)
5.3 Incompatibility (materials to avoid): Avoid contact with strong acids.
5.4 Hazardous decomposition or byproducts: Oxides of Zinc
5.5 Hazardous polymerization: May occur: Will not occur: X
5.6 Conditions to avoid (polymerization): Strong acids.
SECTION VI – Health Hazard Data

6.1 Route(s) of entry: Inhalation?: No  Skin?: Yes  Ingestion?: Possible
6.2 Health hazards (acute and chronic): Ingestion may cause local irritation to soft tissue. Eyes: severe irritation caused by reaction of powder with water. May adhere to tissue. May dry the skin causing irritation.
6.3 Carcinogenicity: NTP?: Not listed  IARC monographs?: Not listed  OSHA Regulated?: No
6.4 Signs and symptoms of exposure: Minor skin irritation (redness).
6.5 Medical conditions generally aggravated by exposure: Open wounds or sores of the skin.
6.6 Emergency first aid procedures: In case of eye contact, flush with flowing water for 15 minutes and call physician. Skin: Wash thoroughly with soap and water. Call physician if irritation persists.

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