Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M(TM) ESPE(TM) CAVIT/ CAVIT-W/ CAVIT-G
MANUFACTURER: 3M
DIVISION: 3M ESPE Dental Products
ADDRESS: 3M Center
St. Paul, MN  55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 10/02/2006
Supercedes Date: 04/20/2005
Document Group: 16-2782-7

Product Use: For use only by dental professionals
Specific Use: Temporary dental restorative

SECTION 2: INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZINC OXIDE</td>
<td>1314-13-2</td>
<td>30 -  50</td>
</tr>
<tr>
<td>CALCIUM SULFATE</td>
<td>7778-18-9</td>
<td>0 -  30</td>
</tr>
<tr>
<td>BARIUM SULFATE</td>
<td>7727-43-7</td>
<td>0 -  20</td>
</tr>
<tr>
<td>TALC</td>
<td>14807-96-6</td>
<td>0 -  20</td>
</tr>
<tr>
<td>ETHYLENE BIS(OXYETHYLENE)DIACETATE</td>
<td>111-21-7</td>
<td>10 - 20</td>
</tr>
<tr>
<td>ZINC SULFATE</td>
<td>7733-02-0</td>
<td>5 - 10</td>
</tr>
<tr>
<td>POLY(VINYL ACETATE)</td>
<td>9003-20-7</td>
<td>1 -  5</td>
</tr>
</tbody>
</table>

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Paste
Odor, Color, Grade: Slight characteristic odor, pink, grey, or white in color
General Physical Form: Solid
Immediate health, physical, and environmental hazards: No immediate health, physical, or environmental hazards are anticipated.
3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:
Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Skin Contact:
Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching.

Inhalation:
Prolonged or repeated exposure, above recommended guidelines, may cause:
   Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Ingestion:
Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea and vomiting.

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact:  Flush eyes with large amounts of water.  If signs/symptoms persist, get medical attention.

Skin Contact:  Wash affected area with soap and water.  If signs/symptoms develop, get medical attention.

Inhalation:  Remove person to fresh air.  If signs/symptoms develop, get medical attention.

If Swallowed:  Do not induce vomiting. Give victim two glasses of water.  Never give anything by mouth to an unconscious person.  Get immediate medical attention.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autoignition temperature</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flammable Limits - LEL</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flammable Limits - UEL</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).
5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Not applicable.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill. Collect as much of the spilled material as possible. Clean up residue. Collect the resulting residue containing solution. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING
Avoid eye contact. Avoid prolonged or repeated skin contact.

7.2 STORAGE
Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS
Not applicable.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection
Avoid eye contact.
The following eye protection(s) are recommended: Safety Glasses with side shields.

8.2.2 Skin Protection
Avoid prolonged or repeated skin contact. Gloves not normally required.

8.2.3 Respiratory Protection
Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

8.2.4 Prevention of Swallowing
Do not ingest.

### 8.3 EXPOSURE GUIDELINES

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Authority</th>
<th>Type</th>
<th>Limit</th>
<th>Additional Information</th>
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</thead>
<tbody>
<tr>
<td>BARIUM SULFATE</td>
<td>ACGIH</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td></td>
</tr>
<tr>
<td>BARIUM SULFATE</td>
<td>OSHA</td>
<td>TWA, respirable</td>
<td>5 mg/m³</td>
<td>Table Z-1</td>
</tr>
<tr>
<td>BARIUM SULFATE</td>
<td>OSHA</td>
<td>TWA, Vacated, as dust</td>
<td>10 mg/m³</td>
<td></td>
</tr>
<tr>
<td>BARIUM SULFATE</td>
<td>OSHA</td>
<td>TWA, as total dust</td>
<td>15 mg/m³</td>
<td>Table Z-1</td>
</tr>
<tr>
<td>CALCIUM SULFATE</td>
<td>ACGIH</td>
<td>TWA, inhalable fraction</td>
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<td></td>
</tr>
<tr>
<td>CALCIUM SULFATE</td>
<td>OSHA</td>
<td>TWA, respirable</td>
<td>5 mg/m³</td>
<td>Table Z-1</td>
</tr>
<tr>
<td>CALCIUM SULFATE</td>
<td>OSHA</td>
<td>TWA, as total dust</td>
<td>15 mg/m³</td>
<td>Table Z-1</td>
</tr>
<tr>
<td>TALC</td>
<td>ACGIH</td>
<td>TWA, respirable</td>
<td>2 mg/m³</td>
<td>Table A4</td>
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<td>TALC</td>
<td>CMRG</td>
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<td>0.5 mg/m³</td>
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<tr>
<td>TALC</td>
<td>OSHA</td>
<td>TWA, respirable</td>
<td>2 mg/m³</td>
<td>Table Z-1A</td>
</tr>
<tr>
<td>ZINC OXIDE</td>
<td>ACGIH</td>
<td>TWA, respirable</td>
<td>2 mg/m³</td>
<td></td>
</tr>
<tr>
<td>ZINC OXIDE</td>
<td>ACGIH</td>
<td>STEL</td>
<td>10 mg/m³</td>
<td></td>
</tr>
<tr>
<td>ZINC OXIDE</td>
<td>OSHA</td>
<td>TWA, as fume</td>
<td>5 mg/m³</td>
<td>Table Z-1</td>
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<tr>
<td>ZINC OXIDE</td>
<td>OSHA</td>
<td>STEL, Vacated, as fume</td>
<td>10 mg/m³</td>
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</tr>
</tbody>
</table>

VAC Vacated PEL: Vacated Permissible Exposure Limits [PEL] are enforced as the OSHA PEL in some states. Check with your local regulatory agency.

**SOURCE OF EXPOSURE LIMIT DATA:**
- ACGIH: American Conference of Governmental Industrial Hygienists
- CMRG: Chemical Manufacturer Recommended Guideline
- OSHA: Occupational Safety and Health Administration
- AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **Specific Physical Form:** Paste
- **Odor, Color, Grade:** Slight characteristic odor, pink, grey, or white in color
- **General Physical Form:** Solid
- **Autoignition temperature:** No Data Available
- **Flash Point:** Not Applicable
- **Flammable Limits - LEL:** Not Applicable
- **Flammable Limits - UEL:** Not Applicable
- **Boiling point:** Not Applicable
- **Density:** No Data Available
- **Vapor Density:** Not Applicable
- **Vapor Pressure:** Not Applicable
- **Specific Gravity:** 2.6 - 3.0 [Ref Std: WATER=1]
- **pH:** Not Applicable
- **Melting point:** No Data Available
- **Solubility in Water:** Nil
Evaporation rate: Not Applicable
Volatile Organic Compounds: Not Applicable
Percent volatile: Not Applicable
VOC Less H2O & Exempt Solvents: Not Applicable
Viscosity: Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid: None known

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon monoxide</td>
<td>During Combustion</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>During Combustion</td>
</tr>
<tr>
<td>Irritant Vapors or Gases</td>
<td>During Combustion</td>
</tr>
</tbody>
</table>

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
Not determined.

CHEMICAL FATE INFORMATION
Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Incinerate in an industrial or commercial facility in the presence of a combustible material. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

EPA Hazardous Waste Number (RCRA): Not regulated

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14: TRANSPORT INFORMATION
ID Number(s):

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS
Contact 3M for more information.

311/312 Hazard Categories:
Fire Hazard - No  Pressure Hazard - No  Reactivity Hazard - No  Immediate Hazard - No  Delayed Hazard - No

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

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<tbody>
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<td>1314-13-2</td>
<td>30 - 50</td>
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<td>ZINC SULFATE (ZINC COMPOUNDS)</td>
<td>7733-02-0</td>
<td>5 - 10</td>
</tr>
</tbody>
</table>

STATE REGULATIONS
Contact 3M for more information.

CHEMICAL INVENTORIES
This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.
Contact 3M for more information.

INTERNATIONAL REGULATIONS
Contact 3M for more information.
SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 1  Flammability: 1  Reactivity: 0  Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision Changes:
Copyright was modified.
Section 8: Exposure guidelines ingredient information was modified.

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