**ORTHOCEMENT POWDER**

1 - IDENTIFICATION

Manufacturer: Ormco Corporation  
Address: 1717 West Collins Avenue  
City, State, Zip: Orange, CA 92867  
Telephone: 1-800-854-1741  
Emergency: Chemtrec 1-800-424-9300  
Date Prepared: February 22, 2006

2 - COMPOSITION INFORMATION

<table>
<thead>
<tr>
<th>Hazardous Ingredients</th>
<th>CAS #</th>
<th>PEL (mg/m³)</th>
<th>TLV (mg/m³)</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Oxide</td>
<td>1314-13-2</td>
<td>10</td>
<td>10</td>
<td>80-90</td>
</tr>
<tr>
<td>Amorphous Silica</td>
<td>112926-00-8</td>
<td>5</td>
<td>10</td>
<td>1-5</td>
</tr>
</tbody>
</table>

3 - PHYSICAL AND CHEMICAL PROPERTIES

- Boiling Point: N/D  
- Specific Gravity (H₂O = 1): N/D  
- Vapor Pressure (mm Hg): N/D  
- Vapor Density (AIR = 1): N/D  
- Freezing/Melting Point: N/D  
- Solubility in Water: Soluble  
- Appearance and Odor: Finely divided, odorless powder

4 - FIRE AND EXPLOSION HAZARD DATA

- Flash Point (Method Used): N/A  
- Flammable Limits: LEL: N/A  
- UEL: N/A  
- Extinguishing Media: N/A  
- Special Fire Fighting Procedures: None  
- Other Fire and Explosion Hazards: None

5 - REACTIVITY DATA

- Stability: Stable  
- Conditions to Avoid: N/A  
- Incompatibility (Material to Avoid): Strong caustics, metals, sulfides and sulfites  
- Hazardous Decomposition Byproducts: N/A  
- Hazardous Polymerization: Will not occur

6 - HEALTH HAZARD DATA

- Routes of Entry:  
  - Skin: Particles may cause irritation.  
  - Eyes: Particles may cause irritation.  
  - Inhalation: Large amounts of this nuisance dust may cause coughing, sneezing, and nasal irritation.  
  - Ingestion: If ingested, may result in an obstruction.  
- Carcinogenicity: NTP: No  
- IARC Monographs: No  
- OSHA Regulated Carcinogen: No

7 - EMERGENCY FIRST AID PROCEDURES

- Skin: Wash thoroughly with soap and water. Use hand cream.  
- Eyes: Flush with water for 15 minutes including under eyelids. Get medical attention.  
- Inhalation: Remove to fresh air. Get medical attention if discomfort persists.  
- Ingestion: Seek medical attention

8 - PRECAUTIONS FOR SAFE HANDLING & USE

- Steps to be taken in case material is released or spilled: Sweep up and place in normal waste container.  
- Waste Disposal Method: Dispose along with normal solid waste  
- Precautions to be taken in Handling and Storing: Store at normal room temperature  
- Other Precautions: Use according to directions. Avoid prolonged contact

9 - CONTROL MEASURES

- Respiratory Protection: N/A  
- VENTILATION:  
  - Local Exhaust: N/A  
  - Mechanical (General): N/A  
- Protective Gloves: Wear impervious rubber gloves to prevent skin contact  
- Eye Protection: Safety glasses or goggles  
- Work/Hygiene Practices: Handle in accordance with good personal hygiene and safety practices. These practices include avoiding unnecessary exposure to uncured material. Avoid contamination of food.

10 - TRANSPORTATION INFORMATION

- Not DOT regulated

11 - SPECIAL INFORMATION

- HMIS (Hazardous Material Identification System) Rating:  
  - H1 F0 R0 PPE-Gloves and safety glasses  
  - [HMIS Hazard Index: 4 – Severe Hazard; 3 – Serious Hazard; 2 – Moderate Hazard; 1 – Slight Hazard; 0 – Minimum Hazard]

Note: This MSDS was prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and is to be used only for this product. The information contained in this MSDS is, to the best of our knowledge, believed to be accurate.