MATERIAL SAFETY DATA SHEET

SECTION I – Product/Company Identification

1.1 Product Trade Name: JELTRATE® Alginate Impression Material
1.2 Part (Item) Number: 608005 – 608522 All Package Configurations
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.dENTSPLY.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: 10/18/99  Dated Revised: 10/17/02

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>Crystalline Silica - Cristobalite</td>
<td>0.05 mg/m³</td>
<td>0.05 mg/m³</td>
<td>14464-46-1</td>
<td>&lt; than 55%</td>
</tr>
<tr>
<td>Crystalline Silica -Quartz</td>
<td>0.05 mg/m³</td>
<td>0.05 mg/m³</td>
<td>14808-60-7</td>
<td>with above</td>
</tr>
<tr>
<td>Amorphous Silica - Diatomaceous Earth</td>
<td>1.2 mg/m³</td>
<td>10 mg/m³</td>
<td>6855-59-5</td>
<td>&lt; than 20%</td>
</tr>
<tr>
<td>Calcium Sulfate</td>
<td>10 mg/m³</td>
<td>10 mg/m³</td>
<td>10101-41-4</td>
<td>&lt; than 15%</td>
</tr>
<tr>
<td>Tetrasodium Pyrophosphate</td>
<td>5 mg/m³</td>
<td>5 mg/m³</td>
<td>7722-88-5</td>
<td>&lt; than 3 %</td>
</tr>
<tr>
<td>Potassium Alginate (As nuisance dust)</td>
<td>15 mg/m³</td>
<td>10 mg/m³</td>
<td>9005-36-1</td>
<td>&lt; than 15 %</td>
</tr>
<tr>
<td>Magnesium Oxide (As nuisance dust)</td>
<td>15 mg/m³</td>
<td>10 mg/m³</td>
<td>1309-48-4</td>
<td>&lt; than 7 %</td>
</tr>
</tbody>
</table>

Warning: This product contains silica, crystalline (airborne particles of respirable size) which is known by the State of California to cause cancer.

OTHER INFORMATION:
Fast Set Product contains D & C Red # 30 Aluminum Lake as colorant.
Regular Set Product contains synthetic Yellow Iron Oxide as colorant.

SECTION III - Physical/Chemical Characteristics

3.1 Boiling point: N. A.  3.6 Specific Gravity: 0.3 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: Partially Soluble
3.5 Appearance and odor: Dry fluffy powder with spearmint odor; may be colored.

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: N. A.
4.4 Special fire fighting procedures: N. A.
4.5 Unusual fire and explosion hazards: In common with most organic materials, this product should be treated as a combustible dust in the finely divided and suspended state.

SECTION V – Reactivity Data

5.1 Stability: Unstable: Stable: X
5.2 Conditions to avoid (stability): High humidity and water contamination will cause material to gel. Prolonged exposure to heat greater than 60°C (140°F)
5.3 Incompatibility (materials to avoid): Hydrofluoric acid.
5.4 Hazardous decomposition or byproducts: N.A.
5.5 Hazardous polymerization: May occur: Will not occur: X
5.6 Conditions to avoid (polymerization): High humidity and prolonged heat greater than 60°C
SECTION VI - Health Hazard Data

6.1 Primary route(s) of entry: Inhalation?: Yes  Skin?: No  Ingestion?: Yes

6.2 Health hazards (acute and chronic): Acute: Transitory upper respiratory irritation or eye irritation. Chronic: Inhalation of crystalline silica has been classified by IARC as carcinogenic for humans (Group 1). Inhalation of crystalline silica is also a known cause of silicosis, a non-cancerous lung disease caused by excessive exposure to crystalline silica. Respirable dust from this product may contain up to 52% free crystalline silica (Cristobalite). As such it represents a risk to the respiratory system. Long term, unprotected exposure to dust levels in excess of the TLV or PEL may cause lung disease (silicosis).

6.3 Carcinogenicity: NTP?: Proposed  IARC monographs?: Yes (Group 1)  OSHA regulated?: Yes

6.4 Signs and symptoms of exposure: Inhalation: Irritation and soreness in throat and nose. In extreme exposures some congestion may occur. Eyes: Temporary irritation or inflammation. Not hazardous when ingested.

6.5 Medical conditions generally aggravated by exposure: Pre existing upper respiratory and lung diseases such as but not limited to bronchitis, emphysema, and asthma. Target organs: Lungs, Eyes.

6.6 Emergency first aid procedures: Remove to fresh air. Drink water to clear throat and blow nose to evacuate dust. For eyes flush with copious amounts of water for 15 minutes. If irritation persists consult a physician.

SECTION VII - Precautions for Safe Handling and Use

7.1 Steps to be taken in case material is released or spilled: Vacuum clean dust with equipment fitted with a HEPA filter. Use dust suppression such as water if sweeping is necessary. Sweep up spilled material and place in closed containers for disposal.

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: Minimize dust generation and accumulation. Avoid breathing dust, avoid contact with eyes. Return cap to canisters immediately. Close pouches immediately after use. Continue to follow all MSDS/label warnings when handling empty containers. Observe normal warehouse handling procedures. Store in a cool dry area. Store away from foodstuffs and beverages.

7.4 Other precautions: The avoidance of any air contaminant is always a recommended practice. Adherence to workplace ventilation standards is an assurance of general personnel health and comfort. Handling of this product should be by trained dental healthcare professionals only.

SECTION VIII – Control Measures / Personal Protection

8.1 Respiratory protection: Recommended NIOSH approved nuisance dust mask. <10X PEL, use 3M 9900; <100X PEL, use MSA Ultra-Twin with H filter; <200X PEL, use MSA 01-00-06 with type C supplied air unit (continuous flow mode); or equivalent.

8.2 Ventilation: Use sufficient natural or mechanical ventilation to keep dust level below PEL.

8.3 Protective gloves: Rubber gloves.

8.4 Eye protection: Goggles or safety glasses with sideshields.

8.5 Other protective clothing or equipment: Rubber apron.

8.6 Work/Hygienic practices: Avoid dusting when in use. Observe normal care when working with chemicals.

NFPA HAZARD CLASSIFICATIONS

| Health | 2 |
| Flammability | 0 |
| Reactivity | 0 |
| Specific Hazard | N.A. |

NFPA – National Fire Protection Association
N.A. - Not Applicable
N.E. - Not Established

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