1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Zirlux Full Contour Zirconia Stain and Glaze Paste
Revision Date: 03/24/2011
MSDS Number: 216A
Product Use: Dental Restorations

Ardent, Inc.
175 Pineview Drive
Amherst, NY 14228, USA

Technical Services: (866) 751-8548 (9 AM - 5 PM EST)

For MSDS assistance:
Emergency Call USA-Infotrac: (800) 535-5053 (24 hours/7 days)
Emergency Call Canada-Canutec: - 1-(613)-996-6666 (24 hours/7 days)

General MSDS Assistance:
US: 1-800-922-5520
Canada: 1-800-263-8182

2 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>12001-21-7</td>
<td>Dental Porcelain</td>
<td>&gt;65%</td>
</tr>
<tr>
<td>56-81-5</td>
<td>Glycerine</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>107-99-0</td>
<td>Butanediol</td>
<td>&lt;25%</td>
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</table>

This material does not contain any forms of crystalline silica. In addition to silicon (Si) and oxygen (O), dental porcelains comprise the following chemical elements: Al, K, Na, Ca, and may also comprise Li, Mg, Ba, Ce, Ti, Zr, Sn, Y, B, F and Fe. All these elements are not present in their pure or individual oxide forms but rather chemically bonded together within insoluble alumo-silicate glass matrix. By convention the composition of dental porcelain, same as composition of many other glass-ceramic materials, is still reported on individual oxide basis. In that representation composition of dental porcelain may be given as about 50-80% of SiO2, about 5-15% of Al2O3 and the balance comprised of chemical constituents listed above and below. Dental porcelain also contains small amounts of non-silica inclusions: pigments, opacifiers, opalescing and fluorescing agents, which are based on crystalline forms of TiO2, ZrO2, Al2O3, zirconium silicate (ZrSiO4) and yttrium silicate (Y2SiO5). In the fired state of dental porcelain these components are fused and completely encapsulated in chemically durable, insoluble glass matrix specifically designed and tested to resist wear and corrosion in oral environment.

OSHA Regulatory Status: This MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and made available for employees and other users of this product.
HAZARDS IDENTIFICATION

Route of Entry: Inhalation, Eye contact, Skin contact, Ingestion
Target Organs: Lungs
Inhalation: May irritate respiratory system.
Skin Contact: May irritate skin. May cause dermatitis.
Eye Contact: May irritate eyes.
Ingestion: May irritate digestive system.

FIRST AID MEASURES

Inhalation: Remove to fresh air. Seek medical attention if necessary.
Skin Contact: Rinse with soap and water. Consult a physician if irritation occurs.
Eye Contact: Flush with copious amounts of water for at least 15 minutes. Consult an ophthalmologist or medical attention if necessary.
Ingestion: Rinse out mouth and then drink plenty of water. Seek medical attention if necessary.

FIRE FIGHTING MEASURES

Non-flammable.
Use the correct fire fighting measures for the surrounding area.

ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8. Isolate area to prevent unnecessary and unprotected personnel from coming in contact with paste. Use absorbent material to pick up material.

HANDLING AND STORAGE

Handling Precautions: Keep out of eyes.
Avoid excessive contact with skin.
Do not ingest.
Storage Requirements: Keep in original container.
Keep container tightly closed when not in use.
Store at room temperature.
Store away from heat, flame, and oxidizing agents.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use in a well ventilated area or an area with a proper exhaust fan.
Protective Equipment: Protective Gloves: Latex recommended
Eye Protection: OSHA-approved safety goggles
Other: Lab coat/apron depending on operation
Exposure Guidelines/Other: This product has not been evaluated as a whole.
9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Paste in various colors
Physical State: Paste
Odor: Odorless
pH: Not available
Vapor Pressure: Not available
Vapor Density: Not available

Bulk Density: 2.3-2.4 g/cm³

Boiling Point: Not available
Freezing/Melting Pt.: Not available
Solubility: Insoluble
Spec Grav./Density: 2.40 g/cm³

10 STABILITY AND REACTIVITY

Stability: Stable
Conditions to avoid: None known
Materials to avoid (incompatibility): None known
Hazardous Decomposition products: None known
Hazardous Polymerization: None known

11 TOXICOLOGICAL INFORMATION

Not available

12 ECOLOGICAL INFORMATION

Not available

13 DISPOSAL CONSIDERATIONS

This information applies to the material as manufactured; processing, use, or contamination may make the information inappropriate, inaccurate, or incomplete.
Waste must be handled in accordance with all applicable regulations. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state, and local requirements.

14 TRANSPORT INFORMATION

Not available

15 REGULATORY INFORMATION

Not available
16 OTHER INFORMATION

The information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed in good faith and believed to be correct as of the date hereof. Ardent, Inc. however, makes no representations as to the completeness or accuracy of this information and supplies it on the condition that the persons receiving same will make their own determinations as to its suitability for their purpose prior to use. In no event will Ardent, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information.

Rev# 0

END OF MSDS DOCUMENT