MATERIAL SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Radica® Provisional & Diagnostic Resin Enamel, Dentin, Effect Dentin
Product Number: 908100-908109, 908116-908130, 908300, 908305, 908310, 908315, 908320, 908325, 908330, 908335, 908340, 908345, 908350, 908355
MSDS Code Number: 324
Manufacturer: Dentsply Prosthetics
Address: 570 West College Ave.
York, PA 17405-0872
Information Telephone Number: 717-845-7511
Emergency Telephone Number: 800-424-9300 Chemtrec
Product Use: Used in fabrication of provisional crowns and bridges
Date of Last Revision: August 4, 2008

SECTION 2 HAZARDS IDENTIFICATION

Emergency Overview: May cause eye irritation. Dust from grinding or polishing may cause mechanical eye irritation. Uncured product may cause slight skin irritation in susceptible individuals.

SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No./EINECS No.</th>
<th>Percent</th>
<th>EC Substance Classification (67/548/EEC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium Fluoroalumino Borosilicate Glass</td>
<td>Proprietary</td>
<td>50-70</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Urethane Methacrylate</td>
<td>Proprietary</td>
<td>10-20</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Aliphatic Urethane Diacrylate</td>
<td>Proprietary</td>
<td>1-5</td>
<td>Xi, R43</td>
</tr>
<tr>
<td>Aliphatic Urethane Acrylate</td>
<td>Proprietary</td>
<td>5-10</td>
<td>Xi, R36/38, R43</td>
</tr>
<tr>
<td>Methacrylate Ester</td>
<td>Proprietary</td>
<td>5-10</td>
<td>Xi R36/38, R43</td>
</tr>
</tbody>
</table>

See Section 16 for further information on EU Classification.

SECTION 4 FIRST AID MEASURES

Eye Contact: Flush eyes with water for at least 15 minutes, holding the eyelids apart. Get medical attention if irritation persists.
Skin Contact: Wash skin with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before re-use.
Ingestion: If small quantities are swallowed, rinse out mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious or drowsy person. If irritation or discomfort occurs, get immediate medical attention.

Inhalation: Remove victim to fresh air. Get medical attention if irritation develops.

SECTION 5  FIRE FIGHTING PROCEDURES

Extinguishing Media: Use carbon dioxide, foam or dry chemical.

Firefighting Procedures: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus.

Unusual Fire/Explosion Hazards: None known.

Known or Anticipated Hazardous Products of Combustion: Carbon monoxide, carbon dioxide, silicone dioxide, barium oxide, hydrogen fluoride.

SECTION 6  ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Wear appropriate protective clothing as described in Section 8. Scoop or pick up and place into a container for disposal.

Personal Precautions: Avoid contact with skin, eyes or clothing.

Environmental Precautions: None known.

SECTION 7  HANDLING AND STORAGE

Handling: Avoid contact with eyes and skin. Avoid breathing dust. Wash thoroughly after handling. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation.

Empty containers retain product residues can be hazardous. Follow all MSDS precautions when handling empty containers.

Storage: Store in a dry, well ventilated area. Keep container closed when not in use. Material is light sensitive. Light will cause uncured product to polymerize. Do not store in direct sunlight. Protect from physical damage. Keep away from oxidizers and other incompatible materials.

SECTION 8  EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational Exposure Limits:

<table>
<thead>
<tr>
<th></th>
<th>None Established</th>
</tr>
</thead>
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<tr>
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<tr>
<td>Urethane Methacrylate</td>
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<td></td>
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<tr>
<td>Methacrylate Ester</td>
<td></td>
</tr>
</tbody>
</table>

Engineering Controls: When grinding or polishing, use with adequate general or local exhaust ventilation to minimize exposures levels.

Personal Protective Equipment:

Eye Protection: None needed under normal use conditions. Wear safety glasses when grinding or polishing.

Skin Protection: Wear latex, PVC or other impervious gloves to minimize skin contact.

Respiratory Protection: None needed for normal use. When grinding, polishing or where exposure levels are excessive, a NIOSH approved respirator with dust/mist cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

Other Protective Clothing or Equipment: None required.
SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and Odor:** Tooth colored solid. Characteristic acrylate odor.

**Boiling Point:** Not applicable

**Freezing Point:** Not applicable

**Solubility in Water:** Not miscible

**Vapor Pressure (mmHg):** Negligible

**Evaporation Rate:** Not applicable

**% Volatile by Volume:** No volatiles

**Flammable Limits in Air:** Not established

**Melting Point:** approx. 60°C (140°F)

**Specific Gravity:** approx. 1.6

**pH:** Not applicable

**Vapor Density:** Not determined

**Flashpoint:** > 180°C (356°F)

**Autoignition Temperature:** Not established

SECTION 10 STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions to Avoid (stability):** Elevated temperatures and direct sunlight.

**Incompatibility with Other Materials:** Avoid contact with strong oxidizers, amines, halogens, and bases.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, silicone dioxide, barium oxide, hydrogen fluoride.

**Hazardous Polymerization:** Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

**Potential Health Effects:**

**Eyes:** Direct contact may cause irritation with redness, burning and tearing. Dust from grinding or polishing may cause mechanical irritation. Dust from grinding or polishing cured material may cause mechanical irritation.

**Skin:** Uncured product may cause mild skin irritation or cause contact dermatitis on prolonged contact. Not irritating in primary skin irritation studies. Non-sensitizing in Kligman Maximization Test.

**Inhalation:** Not expected to cause respiratory tract irritation. Dust from grinding or polishing may cause sneezing, coughing and other signs of mechanical irritation. Dust from grinding or polishing cured material may cause mechanical irritation with coughing or sneezing.

**Ingestion:** No adverse effects are expected from swallowing small amounts. This product was found to be non-toxic in tests with laboratory animals. This product was found to be non-irritating to mucous membranes in studies with laboratory animals.

**Chronic Health Effects:** Prolonged or repeated skin contact with uncured material may cause skin irritation or sensitization in some individuals.

**Carcinogenicity:** None of the components of this product are listed as carcinogens by OSHA, IARC or NTP.

**Mutagenicity:** This product tested negative in the Ames Test for Mutagenicity.

**Medical Conditions Aggravated by Exposure:** Individuals with pre-existing respiratory disorders may be at increased risk from exposure.

SECTION 12 ECOLOGICAL INFORMATION

Barium Fluoroalumino Borosilicate Glass: No data available

Urethane Methacrylate: No data available

Aliphatic Urethane Diacrylate: No data available

Aliphatic Urethane Acrylate: No data available

Methacrylate Ester: No data available
SECTION 13  DISPOSAL CONSIDERATIONS

This product will polymerize when exposed to sunlight. Small amounts (gram quantity) can be allowed to polymerize in sunlight to a hard solid then disposed of normally. Larger quantities should be disposed of in accordance with Federal, State and local regulations.

SECTION 14  TRANSPORT INFORMATION

DOT Shipping Name: Not Regulated
DOT Hazard Class: N/A
UN Number: N/A
DOT Labels Required (49CFR172.101): N/A

IATA Shipping Name: Not Regulated
IATA Hazard Class: N/A
UN Number: N/A
IATA Hazard Labels Required: N/A

IMDG Shipping Name: Not Regulated
IMDG Class: N/A
UN Number: N/A
IMDG Label: N/A

SECTION 15  REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA TITLE III:
Hazard Category For Section 311/312: Not applicable.
Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

U.S. STATE REGULATIONS

California Proposition 65: This product contains a substance that is known to the State of California to cause cancer or reproductive toxicity (birth defects).

INTERNATIONAL REGULATIONS:

Canadian Environmental Protection Act: This product is a medical device and not subject to chemical notification requirements.

Canadian WHMIS Classification: Medical devices are not subject to WHMIS.

European Community Labeling: Not a dangerous preparation.
European Inventory of New and Existing Chemicals Substances (EINECS): This product is a medical device and not subject to chemical notification requirements.

SECTION 16 OTHER INFORMATION

HMIS Hazard Rating:
Health – 0  Fire Hazard – 1  Reactivity – 0

Revision Date: 08/4/2008  Supercedes: 02/07/2008

EU Classes and Risk Phrases for Reference (See Sections 2 and 3):
Xi Irritant
R36/38 Irritating to eyes and skin.
R43 May cause sensitization by skin contact.