SECTION 1: Identification

1.1. Product identifier
Paradigm™ Nano Hybrid Universal Restorative

Product Identification Numbers
LE-F100-0922-4, LE-F100-0922-5, 70-2010-7953-3, 70-2010-7954-1, 70-2010-7955-8, 70-2010-7956-6, 70-2010-7957-4, 70-2010-7958-2, 70-2010-7959-0, 70-2010-7960-8, 70-2010-7961-6, 70-2010-7962-4, 70-2010-7963-2, 70-2010-7964-0, 70-2010-7965-7, 70-2010-7966-5, 70-2010-7967-3, 70-2010-7968-1, 70-2010-7969-9, 70-2010-7970-7, 70-2010-7971-5, 70-2010-7972-3, 70-2010-7973-1, 70-2010-7974-9, 70-2010-7975-6, 70-2010-7976-4, 70-2010-7977-2, 70-2010-8548-0, 70-2010-9819-4, 70-2010-9820-2, 70-2010-9821-0, 70-2010-9822-8, 70-2010-9823-6, 70-2010-9824-4, 70-2010-9825-1, 70-2010-9826-9, 70-2010-9827-7, 70-2010-9828-5, 70-2010-9829-3, 70-2010-9830-1, 70-2010-9831-9, 70-2010-9832-7, 70-2010-9833-5, 70-2010-9834-3, 70-2010-9835-0, 70-2010-9836-8, 70-2010-9837-6, 70-2010-9838-4, 70-2010-9839-2, 70-2010-9840-0, 70-2010-9841-8, 70-2010-9842-6, 70-2010-9843-4
7000128944, 7000128945, 7000128946, 7000128947, 7000128948, 7000128949, 7000128950, 7000128952, 7000128951, 7000128953, 7000128954, 7000128955, 7000128956, 7000128957, 7000128958, 7000128959, 7000128960, 7000128961, 7000128962, 7000128963, 7000128964, 7000128965, 7000128966, 7000128942, 7000128943, 7010344082, 7010388829, 7100111725, 7010388830, 7010302373, 7010388831, 7010342960, 7100111731, 7010317435, 7010388833, 7010342961, 7010296478, 7010388834, 7010342962, 7010388835, 7010317436, 7010388836, 7100111739, 7010302374, 7010388837, 7100111740, 7010388838, 7010317437, 7010388839, 7010342965, 7010291771

1.2. Recommended use and restrictions on use

Recommended use
Dental Product, Restorative

Restrictions on use
For use only by dental professionals

1.3. Supplier’s details
MANUFACTURER: 3M
DIVISION: Oral Care Solutions Division
ADDRESS: 3M Center, St. Paul, MN 55144-1000, USA
Telephone: 1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number
1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification
This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

2.1. Hazard classification
Skin Sensitizer: Category 1.

2.2. Label elements
Signal word
Warning

Symbols
Exclamation mark |

Pictograms

Hazard Statements
May cause an allergic skin reaction.

Precautionary Statements

Prevention:
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wear protective gloves.
Contaminated work clothing must not be allowed out of the workplace.

Response:
IF ON SKIN:  Wash with plenty of soap and water.
If skin irritation or rash occurs:  Get medical advice/attention.
Wash contaminated clothing before reuse.

Disposal:
Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silane Treated Ceramic</td>
<td>444758-98-9</td>
<td>70 -  85 Trade Secret *</td>
</tr>
<tr>
<td>Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)</td>
<td>1565-94-2</td>
<td>1 -  10 Trade Secret *</td>
</tr>
<tr>
<td>Bisphenol A Polyethylene Glycol Diether Dimethacrylate (BISEMA-6)</td>
<td>41637-38-1</td>
<td>1 -  10 Trade Secret *</td>
</tr>
<tr>
<td>Diurethane Dimethacrylate (UDMA)</td>
<td>72869-86-4</td>
<td>1 -  10 Trade Secret *</td>
</tr>
<tr>
<td>Silane Treated Silica</td>
<td>248596-91-0</td>
<td>1 -  10 Trade Secret *</td>
</tr>
<tr>
<td>Triethylene Glycol Dimethacrylate (TEGDMA)</td>
<td>109-16-0</td>
<td>&lt; 1 Trade Secret *</td>
</tr>
</tbody>
</table>

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.
SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:
Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

If Swallowed:
Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed
See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required
Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media
In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

5.3. Special protective actions for fire-fighters
Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. Acrylates may penetrate commonly-used gloves. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Do not get in eyes.

7.2. Conditions for safe storage including any incompatibilities
No special storage requirements.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits
No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

8.2. Exposure controls

8.2.1. Engineering controls
Use in a well-ventilated area.

8.2.2. Personal protective equipment (PPE)

Eye/face protection
Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Safety Glasses with side shields

Skin/hand protection
See Section 7.1 for additional information on skin protection.

Respiratory protection
None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Solid</td>
</tr>
<tr>
<td>Physical state</td>
<td>Tooth</td>
</tr>
<tr>
<td>Color</td>
<td></td>
</tr>
</tbody>
</table>

Specific Physical Form: Paste
Odor: Slight Acrylate
Odor threshold: No Data Available
**SECTION 10: Stability and reactivity**

10.1. Reactivity
This material is considered to be non reactive under normal use conditions.

10.2. Chemical stability
Stable.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
Light

10.5. Incompatible materials
None known.

10.6. Hazardous decomposition products

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>None known.</td>
</tr>
</tbody>
</table>

Refer to section 5.2 for hazardous decomposition products during combustion.

**SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which
requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure. The information below represents toxicological information associated with the individual components of the uncured product. Once properly mixed and/or cured, the product is safe for its intended use.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:
This product may have a characteristic odor; however, no adverse health effects are anticipated.

Skin Contact:
Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:
Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion:
May be harmful if swallowed.
Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Toxicological Data
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall product</td>
<td>Ingestion</td>
<td></td>
<td>No data available; calculated ATE 2000 - 5000 mg/kg</td>
</tr>
<tr>
<td>Silane Treated Ceramic</td>
<td>Dermal</td>
<td></td>
<td>LD50 estimated to be &gt; 5000 mg/kg</td>
</tr>
<tr>
<td>Silane Treated Ceramic</td>
<td>Ingestion</td>
<td></td>
<td>LD50 estimated to be 2000 - 5000 mg/kg</td>
</tr>
<tr>
<td>Silane Treated Silica</td>
<td>Dermal</td>
<td></td>
<td>LD50 estimated to be &gt; 5000 mg/kg</td>
</tr>
<tr>
<td>Silane Treated Silica</td>
<td>Ingestion</td>
<td></td>
<td>LD50 estimated to be &gt; 5000 mg/kg</td>
</tr>
<tr>
<td>Bisphenol A Polyethylene Glycol Diether Dimethacrylate (BISEMA-6)</td>
<td>Dermal</td>
<td>Professionally judged</td>
<td>LD50 estimated to be &gt; 5000 mg/kg</td>
</tr>
<tr>
<td>Diurethane Dimethacrylate (UDMA)</td>
<td>Dermal</td>
<td>Professionally judged</td>
<td>LD50 estimated to be &gt; 5000 mg/kg</td>
</tr>
<tr>
<td>Bisphenol A Polyethylene Glycol Diether Dimethacrylate (BISEMA-6)</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 2000 mg/kg</td>
</tr>
<tr>
<td>Diurethane Dimethacrylate (UDMA)</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 5000 mg/kg</td>
</tr>
<tr>
<td>Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)</td>
<td>Dermal</td>
<td>Professionally judged</td>
<td>LD50 estimated to be &gt; 5000 mg/kg</td>
</tr>
<tr>
<td>Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 11700 mg/kg</td>
</tr>
<tr>
<td>Triethylene Glycol Dimethacrylate (TEGDMA)</td>
<td>Dermal</td>
<td>Professionally judged</td>
<td>LD50 estimated to be &gt; 5000 mg/kg</td>
</tr>
<tr>
<td>Triethylene Glycol Dimethacrylate (TEGDMA)</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 10837 mg/kg</td>
</tr>
</tbody>
</table>

ATE = acute toxicity estimate
## Skin Corrosion/Irritation

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silane Treated Ceramic</td>
<td>similar compounds</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>Silane Treated Silica</td>
<td>Professional judgment</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>Triethylene Glycol Dimethacrylate (TEGDMA)</td>
<td>Guinea pig</td>
<td>Mild irritant</td>
</tr>
</tbody>
</table>

## Skin Sensitization

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silane Treated Ceramic</td>
<td>similar compounds</td>
<td>Not classified</td>
</tr>
<tr>
<td>Bisphenol A Polyethylene Glycol Diether Dimethacrylate (BISEMA-6)</td>
<td>Guinea pig</td>
<td>Not classified</td>
</tr>
<tr>
<td>Diurethane Dimethacrylate (UDMA)</td>
<td>Guinea pig</td>
<td>Sensitizing</td>
</tr>
<tr>
<td>Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)</td>
<td>Mouse</td>
<td>Not classified</td>
</tr>
<tr>
<td>Triethylene Glycol Dimethacrylate (TEGDMA)</td>
<td>Human and animal</td>
<td>Sensitizing</td>
</tr>
</tbody>
</table>

## Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

## Germ Cell Mutagenicity

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol A Polyethylene Glycol Diether Dimethacrylate (BISEMA-6)</td>
<td>In Vitro</td>
<td></td>
<td>Not mutagen</td>
</tr>
<tr>
<td>Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)</td>
<td>In Vitro</td>
<td></td>
<td>Not mutagen</td>
</tr>
<tr>
<td>Triethylene Glycol Dimethacrylate (TEGDMA)</td>
<td>In Vitro</td>
<td></td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
</tbody>
</table>

## Carcinogenicity

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silane Treated Ceramic</td>
<td>Inhalation</td>
<td>similar compounds</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>Triethylene Glycol Dimethacrylate (TEGDMA)</td>
<td>Dermal</td>
<td>Mouse</td>
<td>Not carcinogenic</td>
</tr>
</tbody>
</table>
Reproductive Toxicity

Reproductive and/or Developmental Effects

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)</td>
<td>Ingestion</td>
<td>Not classified for development</td>
<td>Rat</td>
<td>NOAEL 1,000 mg/kg/day</td>
<td>during gestation</td>
</tr>
<tr>
<td>Triethylene Glycol Dimethacrylate (TEGDMA)</td>
<td>Ingestion</td>
<td>Not classified for female reproduction</td>
<td>Mouse</td>
<td>NOAEL 1 mg/kg/day</td>
<td>1 generation</td>
</tr>
<tr>
<td>Triethylene Glycol Dimethacrylate (TEGDMA)</td>
<td>Ingestion</td>
<td>Not classified for male reproduction</td>
<td>Mouse</td>
<td>NOAEL 1 mg/kg/day</td>
<td>1 generation</td>
</tr>
<tr>
<td>Triethylene Glycol Dimethacrylate (TEGDMA)</td>
<td>Ingestion</td>
<td>Not classified for development</td>
<td>Mouse</td>
<td>NOAEL 1 mg/kg/day</td>
<td>1 generation</td>
</tr>
</tbody>
</table>

Target Organ(s)

Specific Target Organ Toxicity - single exposure
For the component/components, either no data are currently available or the data are not sufficient for classification.

Specific Target Organ Toxicity - repeated exposure

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Target Organ(s)</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silane Treated Ceramic</td>
<td>Inhalation</td>
<td>pulmonary fibrosis</td>
<td>Not classified</td>
<td>similar compounds</td>
<td>NOAEL Not available</td>
<td></td>
</tr>
<tr>
<td>Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)</td>
<td>Ingestion</td>
<td>endocrine system</td>
<td>hematopoietic system</td>
<td>liver</td>
<td>heart</td>
<td>skin</td>
</tr>
<tr>
<td>Triethylene Glycol Dimethacrylate (TEGDMA)</td>
<td>Dermal</td>
<td>kidney and/or bladder</td>
<td>blood</td>
<td>Mouse</td>
<td>NOAEL 833 mg/kg/day</td>
<td>78 weeks</td>
</tr>
</tbody>
</table>

Aspiration Hazard
For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Ecotoxicological information
Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information
Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations
13.1. Disposal methods
Dispose of contents/container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility.

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations
Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:
Physical Hazards
Not applicable

Health Hazards
Respiratory or Skin Sensitization

Additional TSCA Information

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silane Treated Silica</td>
<td>248596-91-0</td>
<td>Allowed use(s): Coating additive.</td>
</tr>
</tbody>
</table>

15.2. State Regulations
Contact 3M for more information.

15.3. 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.

15.4. International Regulations
Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification
Health: 2  Flammability: 1  Instability: 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.

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from 3M.

3M USA SDSs are available at www.3M.com