

# **Safety Data Sheet**

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16-1920-4 12.03 **Document Group: Version Number:** Issue Date: 02/17/20 **Supercedes Date:** 05/18/18

# **SECTION 1: Identification**

#### 1.1. Product identifier

3M<sup>TM</sup> ESPE<sup>TM</sup> RELYX<sup>TM</sup> VENEER CEMENT REFILLS

#### **Product Identification Numbers**

LE-F100-0702-2, 70-2010-3183-1, 70-2010-3184-9, 70-2010-3185-6, 70-2010-3186-4, 70-2010-3187-2, 70-2010-3188-0, 2014-0139-8, 70-2014-0140-6, 70-2014-0141-4, 70-2014-0142-2, 70-2014-0143-0 7000003150, 7000003151, 7000003152, 7000003153, 7000128792, 7000128793, 7000054259, 7000054260, 7000054261, 7000054262, 7000054263, 7010388159, 7010343319, 7010388160, 7010304350, 7010388161, 7010343320

### 1.2. Recommended use and restrictions on use

## Recommended use

Dental Product, Veneer cement

### 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

Serious Eye Damage/Irritation: Category 2B.

Skin Sensitizer: Category 1.

#### 2.2. Label elements

## Signal word

Warning

# **Symbols**

Exclamation mark |

### **Pictograms**



#### **Hazard Statements**

Causes eye irritation.

May cause an allergic skin reaction.

## **Precautionary Statements**

#### **Prevention:**

Wear protective gloves.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

### **Response:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention. 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**

| Ingredient                                  | C.A.S. No.  | % by Wt                |
|---|-------------|------------------------|
| Silane Treated Ceramic                      | 444758-98-9 | 55 - 65 Trade Secret * |
| Triethylene Glycol Dimethacrylate (TEGDMA)  | 109-16-0    | 10 - 20 Trade Secret * |
| Bisphenol A Diglycidyl Ether Dimethacrylate | 1565-94-2   | 10 - 20 Trade Secret * |
| (BISGMA)                                    |             |                        |
| Silane Treated Silica                       | 248596-91-0 | 1 - 10 Trade Secret *  |
| Reacted Polycaprolactone Polymer            | None        | 1 - 10 Trade Secret *  |
| Titanium Dioxide                            | 13463-67-7  | < 1 Trade Secret *     |
| Diphenyliodonium Hexafluorophosphate        | 58109-40-3  | < 0.5 Trade Secret *   |
| Triphenylantimony                           | 603-36-1    | < 0.5 Trade Secret *   |

<sup>\*</sup>The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

# **SECTION 4: First aid measures**

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#### 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.

## **Hazardous Decomposition or By-Products**

<u>Substance</u> Carbon monoxide Carbon dioxide

## Condition

**During Combustion During Combustion** 

# 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. 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. 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

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient         | C.A.S. No. | Agency | Limit type                  | Additional Comments     |
|--------------------|------------|--------|-----------------------------|-------------------------|
| Titanium Dioxide   | 13463-67-7 | ACGIH  | TWA:10 mg/m3                | A4: Not class. as human |
|                    |            |        |                             | carcin                  |
| Titanium Dioxide   | 13463-67-7 | OSHA   | TWA(as total dust):15 mg/m3 |                         |
| ANTIMONY COMPOUNDS | 603-36-1   | ACGIH  | TWA(as Sb):0.5 mg/m3        |                         |
| ANTIMONY COMPOUNDS | 603-36-1   | OSHA   | TWA(as Sb):0.5 mg/m3        |                         |

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

## 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

**Appearance** 

Physical state Solid Color Multicolor

Specific Physical Form: Paste

Odor Characteristic Odor Odor threshold No Data Available pН No Data Available **Melting point** No Data Available **Boiling Point** Not Applicable **Flash Point** No flash point **Evaporation rate** Not Applicable Flammability (solid, gas) Not Classified Flammable Limits(LEL) Not Applicable Flammable Limits(UEL) Not Applicable Vapor Pressure Not Applicable **Vapor Density** Not Applicable **Density** 1.102 g/cm3

Specific Gravity 1.102 [Ref Std:WATER=1]

Solubility in Water Negligible

No Data Available Solubility- non-water Partition coefficient: n-octanol/ water *Not Applicable* **Autoignition temperature** Not Applicable **Decomposition temperature** No Data Available Not Applicable Viscosity No Data Available Molecular weight **Volatile Organic Compounds** Not Applicable Percent volatile Not Applicable **VOC Less H2O & Exempt Solvents** Not Applicable

# **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

None known.

### 10.5. Incompatible materials

None known.

## 10.6. Hazardous decomposition products

<u>Substance</u> <u>Condition</u>

None known.

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:**

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

# **Eye Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### **Ingestion:**

May be harmful if swallowed.

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

#### **Additional Health Effects:**

#### Carcinogenicity:

Exposures needed to cause the following health effect(s) are not expected during normal, intended use:

Contains a chemical or chemicals which can cause cancer.

| Ingredient       | CAS No.    | Class Description             | Regulation                                  |
|------------------|------------|-------------------------------|---|
| Titanium Dioxide | 13463-67-7 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

### **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.

## **Acute Toxicity**

| Acute Toxicity                             |           |           | ·  |
|--|-----------|-----------|--|
| Name                                       | Route     | Species   | Value  |
| Overall product                            | Dermal    |           | No data available; calculated ATE >5,000 mg/kg       |
| Overall product                            | Ingestion |           | No data available; calculated ATE2,000 - 5,000 mg/kg |
| Silane Treated Ceramic                     | Dermal    |           | LD50 estimated to be > 5,000 mg/kg                   |
| Silane Treated Ceramic                     | Ingestion |           | LD50 estimated to be 2,000 - 5,000 mg/kg             |
| Triethylene Glycol Dimethacrylate (TEGDMA) | Dermal    | Professio | LD50 estimated to be > 5,000 mg/kg                   |
|  |           | nal       |  |

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|  |                                       | judgeme                           |  |
|--|---------------------------------------|-----------------------------------|--|
|  |                                       | nt                                |  |
| Triethylene Glycol Dimethacrylate (TEGDMA)           | Ingestion                             | Rat                               | LD50 10,837 mg/kg                        |
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | Dermal                                | Professio<br>nal<br>judgeme<br>nt | LD50 estimated to be > 5,000 mg/kg       |
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | Ingestion                             | Rat                               | LD50 > 11,700 mg/kg                      |
| Silane Treated Silica                                | Dermal                                |                                   | LD50 estimated to be > 5,000 mg/kg       |
| Silane Treated Silica                                | Ingestion                             |                                   | LD50 estimated to be > 5,000 mg/kg       |
| Reacted Polycaprolactone Polymer                     | Dermal                                | Professio<br>nal<br>judgeme<br>nt | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Reacted Polycaprolactone Polymer                     | Ingestion                             | similar<br>compoun<br>ds          | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Titanium Dioxide                                     | Dermal                                | Rabbit                            | LD50 > 10,000 mg/kg                      |
| Titanium Dioxide                                     | Inhalation-<br>Dust/Mist<br>(4 hours) | Rat                               | LC50 > 6.82 mg/l                         |
| Titanium Dioxide                                     | Ingestion                             | Rat                               | LD50 > 10,000 mg/kg                      |
| Diphenyliodonium Hexafluorophosphate                 | Ingestion                             | Rat                               | LD50 32 mg/kg                            |
| Triphenylantimony                                    | Inhalation-<br>Dust/Mist              |                                   | LC50 estimated to be 1 - 5 mg/l          |
| Triphenylantimony                                    | Dermal                                | Rat                               | LD50 > 2,000 mg/kg                       |
| Triphenylantimony                                    | Ingestion                             | Rat                               | LD50 82.5 mg/kg                          |

 $\overline{ATE}$  = acute toxicity estimate

# Skin Corrosion/Irritation

| Name   | Species   | Value                     |
|--|-----------|---------------------------|
|  |           |                           |
| Silane Treated Ceramic                               | similar   | No significant irritation |
|  | compoun   |                           |
|  | ds        |                           |
| Triethylene Glycol Dimethacrylate (TEGDMA)           | Guinea    | Mild irritant             |
|  | pig       |                           |
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | Rabbit    | No significant irritation |
| Silane Treated Silica                                | Professio | No significant irritation |
|  | nal       |                           |
|  | judgeme   |                           |
|  | nt        |                           |
| Titanium Dioxide                                     | Rabbit    | No significant irritation |
| Diphenyliodonium Hexafluorophosphate                 | Rabbit    | No significant irritation |
| Triphenylantimony                                    | Rabbit    | Minimal irritation        |

**Serious Eye Damage/Irritation** 

| Name   | Species   | Value                     |
|--|-----------|---------------------------|
|  |           |                           |
| Silane Treated Ceramic                               | similar   | Mild irritant             |
|  | compoun   |                           |
|  | ds        |                           |
| Triethylene Glycol Dimethacrylate (TEGDMA)           | Professio | Moderate irritant         |
|  | nal       |                           |
|  | judgeme   |                           |
|  | nt        |                           |
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | In vitro  | No significant irritation |
|  | data      |                           |
| Silane Treated Silica                                | Professio | No significant irritation |
|  | nal       |                           |
|  | judgeme   |                           |
|  | nt        |                           |
| Titanium Dioxide                                     | Rabbit    | No significant irritation |
| Diphenyliodonium Hexafluorophosphate                 | Rabbit    | Mild irritant             |

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| Triphenylantimony | Rabbit | Mild irritant |
|-------------------|--------|---------------|
|-------------------|--------|---------------|

# **Skin Sensitization**

| Name   | Species | Value          |
|--|---------|----------------|
| Silane Treated Ceramic                               | similar | Not classified |
|  | compoun |                |
|  | ds      |                |
| Triethylene Glycol Dimethacrylate (TEGDMA)           | Human   | Sensitizing    |
|  | and     |                |
|  | animal  |                |
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | Mouse   | Not classified |
| Titanium Dioxide                                     | Human   | Not classified |
|  | and     |                |
|  | animal  |                |

# **Respiratory Sensitization**

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

**Germ Cell Mutagenicity** 

| Name   | Route    | Value  |
|--|----------|--|
|  |          |  |
| Triethylene Glycol Dimethacrylate (TEGDMA)           | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | In Vitro | Not mutagenic  |
| Titanium Dioxide                                     | In Vitro | Not mutagenic  |
| Titanium Dioxide                                     | In vivo  | Not mutagenic  |
| Diphenyliodonium Hexafluorophosphate                 | In Vitro | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| ear emogenierty                            |            |                               |  |
|--|------------|-------------------------------|--|
| Name                                       | Route      | Species                       | Value  |
| Silane Treated Ceramic                     | Inhalation | similar<br>compoun<br>ds      | Some positive data exist, but the data are not sufficient for classification |
| Triethylene Glycol Dimethacrylate (TEGDMA) | Dermal     | Mouse                         | Not carcinogenic   |
| Titanium Dioxide                           | Ingestion  | Multiple<br>animal<br>species | Not carcinogenic   |
| Titanium Dioxide                           | Inhalation | Rat                           | Carcinogenic   |

# Reproductive Toxicity

Reproductive and/or Developmental Effects

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

# Target Organ(s)

**Specific Target Organ Toxicity - single exposure** 

| Name                                    | Route      | Target Organ(s)        | Value          | Species          | Test Result             | Exposure<br>Duration |
|---|------------|------------------------|----------------|------------------|-------------------------|----------------------|
| Diphenyliodonium<br>Hexafluorophosphate | Inhalation | respiratory irritation | Not classified | Not<br>available | Irritation<br>Equivocal |                      |

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Specific Target Organ Toxicity - repeated exposure

| Name   | ame Route Target Organ(s) Value |  | Value  | Species                  | Test Result                 | Exposure<br>Duration  |
|--|---------------------------------|--|--|--------------------------|-----------------------------|-----------------------|
| Silane Treated Ceramic                                     | Inhalation                      | pulmonary fibrosis   | Not classified   | similar<br>compoun<br>ds | NOAEL Not<br>available      |                       |
| Triethylene Glycol<br>Dimethacrylate<br>(TEGDMA)           | Dermal                          | kidney and/or<br>bladder   blood   | Not classified   | Mouse                    | NOAEL 833<br>mg/kg/day      | 78 weeks              |
| Bisphenol A Diglycidyl<br>Ether Dimethacrylate<br>(BISGMA) | Ingestion                       | endocrine system   hematopoietic system   liver   heart   skin   gastrointestinal tract   bone, teeth, nails, and/or hair   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system | Not classified   | Rat                      | NOAEL<br>1,000<br>mg/kg/day | 90 days               |
| Titanium Dioxide   | Inhalation                      | respiratory system   | Some positive data exist, but the data are not sufficient for classification | Rat                      | LOAEL 0.01<br>mg/l          | 2 years               |
| Titanium Dioxide   | Inhalation                      | pulmonary fibrosis   | Not classified   | Human                    | NOAEL Not available         | occupational exposure |

## **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    |  |  |  |
| Serious eye damage or eye irritation |  |  |  |

#### **Additional TSCA Information**

| Components            | CAS No      | Additional Information            |
|-----------------------|-------------|-----------------------------------|
| Silane Treated Silica | 248596-91-0 | Allowed use(s): Coating additive. |

# 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.

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 05/18/18

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