

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

075033386

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

075033337 075033501

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

075032602 075033345 075033352 075033360 075033378 075033394 075033519 075033527 075033535 075033543  
075033550 075033568 079396238 079396241 079396244 079396247 079396250 079396253 079396263 079396266  
079396269 079396272 079396275 079396278 273011066



## Material Safety Data Sheet

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 3M™ ESPE™ RELYX™ VENEER TRY-IN PASTE  
**MANUFACTURER:** 3M  
**DIVISION:** 3M ESPE Dental Products

**ADDRESS:** 3M Center  
 St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

**Issue Date:** 06/03/09  
**Supersedes Date:** 01/20/09

**Document Group:** 16-1922-0

#### Product Use:

Intended Use: Dental Product  
 Limitations on Use: For use only by dental professionals  
 Specific Use: Dental veneer try-in paste

### SECTION 2: INGREDIENTS

| <u>Ingredient</u>   | <u>C.A.S. No.</u> | <u>% by Wt</u> |
|---------------------|-------------------|----------------|
| POLYETHYLENE GLYCOL | 25322-68-3        | 80 - 95        |
| CERAMIC POWDER      | 66402-68-4        | 5 - 15         |
| TITANIUM DIOXIDE    | 13463-67-7        | < 2            |

### SECTION 3: HAZARDS IDENTIFICATION

#### 3.1 EMERGENCY OVERVIEW

**Specific Physical Form:** Paste

**Odor, Color, Grade:** Characteristic odor, various shades

**General Physical Form:** Solid

**Immediate health, physical, and environmental hazards:** No immediate health, physical or environmental hazards are anticipated. See Section 3.2 for other hazards that can be associated with the ingredients in this product in a non-emergency situation. 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.

### 3.2 POTENTIAL HEALTH EFFECTS

**Eye Contact:**

Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

**Skin Contact:**

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching.

**Inhalation:**

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

**Ingestion:**

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

## SECTION 4: FIRST AID MEASURES

### 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

**Eye Contact:** Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

**Skin Contact:** Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

**Inhalation:** No need for first aid is anticipated.

**If Swallowed:** Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1 FLAMMABLE PROPERTIES

|                                 |                          |
|---------------------------------|--------------------------|
| <b>Autoignition temperature</b> | <i>No Data Available</i> |
| <b>Flash Point</b>              | <i>Not Applicable</i>    |
| <b>Flammable Limits - LEL</b>   | <i>Not Applicable</i>    |
| <b>Flammable Limits - UEL</b>   | <i>Not Applicable</i>    |

### 5.2 EXTINGUISHING MEDIA

Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g., water, foam).

### 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

**Unusual Fire and Explosion Hazards:** No unusual fire or explosion hazards are anticipated.

**Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.**

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Accidental Release Measures:** Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. Collect as much of the spilled material as possible. Clean up residue with detergent and water. Collect the resulting residue containing solution. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

**In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.**

## SECTION 7: HANDLING AND STORAGE

### 7.1 HANDLING

Avoid eye contact. Avoid prolonged or repeated skin contact. Wash hands after handling and before eating.

### 7.2 STORAGE

Store in a cool place.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Not applicable.

### 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### 8.2.1 Eye/Face Protection

Avoid eye contact.

The following eye protection(s) are recommended: Safety Glasses with side shields.

#### 8.2.2 Skin Protection

Avoid prolonged or repeated skin contact. Gloves not normally required.

#### 8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

**8.2.4 Prevention of Swallowing**

Do not ingest. Wash hands after handling and before eating.

**8.3 EXPOSURE GUIDELINES**

| <u>Ingredient</u>    | <u>Authority</u> | <u>Type</u>             | <u>Limit</u> | <u>Additional Information</u> |
|----------------------|------------------|-------------------------|--------------|-------------------------------|
| POLYETHYLENE GLYCOLS | AIHA             | TWA, as aerosol         | 10 mg/m3     |                               |
| TITANIUM DIOXIDE     | ACGIH            | TWA                     | 10 mg/m3     | Table A4                      |
| TITANIUM DIOXIDE     | CMRG             | TWA, as respirable dust | 5 mg/m3      |                               |
| TITANIUM DIOXIDE     | OSHA             | TWA, Vacated, as dust   | 10 mg/m3     |                               |
| TITANIUM DIOXIDE     | OSHA             | TWA, as total dust      | 15 mg/m3     | Table Z-1                     |

VAC Vacated PEL: Vacated Permissible Exposure Limits [PEL] are enforced as the OSHA PEL in some states. Check with your local regulatory agency.

**SOURCE OF EXPOSURE LIMIT DATA:**

- ACGIH: American Conference of Governmental Industrial Hygienists
- CMRG: Chemical Manufacturer Recommended Guideline
- OSHA: Occupational Safety and Health Administration
- AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

|                                 |                                     |
|---------------------------------|-------------------------------------|
| <b>Specific Physical Form:</b>  | Paste                               |
| <b>Odor, Color, Grade:</b>      | Characteristic odor, various shades |
| <b>General Physical Form:</b>   | Solid                               |
| <b>Autoignition temperature</b> | <i>No Data Available</i>            |
| <b>Flash Point</b>              | <i>Not Applicable</i>               |
| <b>Flammable Limits - LEL</b>   | <i>Not Applicable</i>               |
| <b>Flammable Limits - UEL</b>   | <i>Not Applicable</i>               |
| <b>Boiling point</b>            | <i>Not Applicable</i>               |
| <b>Density</b>                  | 1.3 g/cm3                           |
| <b>Vapor Density</b>            | <i>Not Applicable</i>               |
| <b>Vapor Pressure</b>           | <i>Not Applicable</i>               |
| <b>Specific Gravity</b>         | 1.3 [Ref Std: WATER=1]              |
| <b>pH</b>                       | <i>Not Applicable</i>               |
| <b>Melting point</b>            | <i>No Data Available</i>            |
| <b>Solubility in Water</b>      | Appreciable                         |

**SECTION 10: STABILITY AND REACTIVITY**

**Stability:** Stable.

**Materials and Conditions to Avoid:** None known

**Hazardous Polymerization:** Hazardous polymerization will not occur.

### Hazardous Decomposition or By-Products

**Substance**

Carbon monoxide  
Carbon dioxide

**Condition**

During Combustion  
During Combustion

## SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

## SECTION 12: ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

Not determined.

### CHEMICAL FATE INFORMATION

Not determined.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Reclaim if feasible. For quantities <100 lbs. (50kg): dispose of waste product in a sanitary landfill. For larger quantities: incinerate in an industrial or commercial facility in the presence of a combustible material. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

**EPA Hazardous Waste Number (RCRA):** Not regulated

Since regulations vary, consult applicable regulations or authorities before disposal.

## SECTION 14: TRANSPORT INFORMATION

**ID Number(s):**

LE-F100-0702-1, 70-2010-3189-8, 70-2010-3190-6, 70-2010-3191-4, 70-2010-3192-2, 70-2010-3193-0, 70-2010-3194-8

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

## SECTION 15: REGULATORY INFORMATION

### US FEDERAL REGULATIONS

Contact 3M for more information.

**311/312 Hazard Categories:**

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

**STATE REGULATIONS**

Contact 3M for more information.

**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.

**INTERNATIONAL REGULATIONS**

Contact 3M for more information.

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

**SECTION 16: OTHER INFORMATION**

**NFPA Hazard Classification**

**Health:** 1 **Flammability:** 1 **Reactivity:** 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.

**Reason for Reissue:** The MSDS has been revised because 3M has adopted the 16-section ANSI/ISO format. The potential hazards of the product have not changed. We encourage you to reread the MSDS and review the information.

**Revision Changes:**

Section 1: Product name was modified.

Page Heading: Product name was modified.

Section 14: ID Number(s) Template 1 was modified.

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 16-1922-0 | <b>Version Number:</b>  | 7.00     |
| <b>Issue Date:</b>     | 02/25/16  | <b>Supersedes Date:</b> | 12/05/14 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ ESPE™ RELYX™ VENEER TRY-IN PASTE

#### Product Identification Numbers

LE-F100-0702-1, 70-2010-3189-8, 70-2010-3190-6, 70-2010-3191-4, 70-2010-3192-2, 70-2010-3193-0, 70-2010-3194-8

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Dental Product, Veneer try-in paste

##### Restrictions on use

For use only by dental professionals

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Oral Care Solutions Division            |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 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

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### 2.2. Label elements

##### Signal word

Not applicable.

##### Symbols

Not applicable.

**Pictograms**

Not applicable.

**2.3. Hazards not otherwise classified**

None.

**SECTION 3: Composition/information on ingredients**

| Ingredient          | C.A.S. No. | % by Wt                |
|---------------------|------------|------------------------|
| POLYETHYLENE GLYCOL | 25322-68-3 | 80 - 95 Trade Secret * |
| CERAMIC POWDER      | 66402-68-4 | 5 - 15 Trade Secret *  |
| TITANIUM DIOXIDE    | 13463-67-7 | < 2 Trade Secret *     |

\*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:**

Wash with soap and water. 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****Substance**

Carbon monoxide

Carbon dioxide

**Condition**

During Combustion

During Combustion

**5.3. Special protective actions for fire-fighters**

No special protective actions for fire-fighters are anticipated.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Ventilate the area with fresh air. Observe precautions from other sections.

**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. Dispose of collected material as soon as possible.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Avoid prolonged or repeated skin contact. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

**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/m <sup>3</sup>                    | A4: Not class. as human carcin |
| TITANIUM DIOXIDE    | 13463-67-7 | CMRG   | TWA(as respirable dust):5 mg/m <sup>3</sup> |                                |
| TITANIUM DIOXIDE    | 13463-67-7 | OSHA   | TWA(as total dust):15 mg/m <sup>3</sup>     |                                |
| POLYETHYLENE GLYCOL | 25322-68-3 | AIHA   | TWA(as particulate):10 mg/m <sup>3</sup>    |                                |

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

|   |                                     |
|---|-------------------------------------|
| General Physical Form:                  | Solid                               |
| Specific Physical Form:                 | Paste                               |
| Odor, Color, Grade:                     | Characteristic odor, various shades |
| Odor threshold                          | <i>No Data Available</i>            |
| pH                                      | <i>Not Applicable</i>               |
| Melting point                           | <i>No Data Available</i>            |
| Boiling Point                           | <i>Not Applicable</i>               |
| Flash Point                             | <i>Not Applicable</i>               |
| Evaporation rate                        | <i>Not Applicable</i>               |
| Flammability (solid, gas)               | Not Classified                      |
| Flammable Limits(LEL)                   | <i>Not Applicable</i>               |
| Flammable Limits(UEL)                   | <i>Not Applicable</i>               |
| Vapor Pressure                          | <i>Not Applicable</i>               |
| Vapor Density                           | <i>Not Applicable</i>               |
| Density                                 | 1.3 g/cm <sup>3</sup>               |
| Specific Gravity                        | 1.3 [ <i>Ref Std: WATER=1</i> ]     |
| Solubility in Water                     | Appreciable                         |
| Solubility- non-water                   | <i>No Data Available</i>            |
| Partition coefficient: n-octanol/ water | <i>Not Applicable</i>               |
| Autoignition temperature                | <i>No Data Available</i>            |
| Decomposition temperature               | <i>No Data Available</i>            |
| Viscosity                               | <i>No Data Available</i>            |
| Molecular weight                        | <i>No Data Available</i>            |
| Percent volatile                        | <i>Not Applicable</i>               |

## 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****Substance**

None known.

**Condition**

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.

**Eye Contact:**

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

**Ingestion:**

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.

| <b><u>Ingredient</u></b> | <b><u>CAS No.</u></b> | <b><u>Class Description</u></b> | <b><u>Regulation</u></b>                    |
|--------------------------|-----------------------|---------------------------------|---|
| 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**

| <b><u>Name</u></b> | <b><u>Route</u></b> | <b><u>Species</u></b> | <b><u>Value</u></b> |
|--------------------|---------------------|-----------------------|---------------------|
|--------------------|---------------------|-----------------------|---------------------|

|                     |                                |        |   |
|---------------------|--------------------------------|--------|---|
| Overall product     | Ingestion                      |        | No data available; calculated ATE > 5,000 mg/kg |
| POLYETHYLENE GLYCOL | Dermal                         | Rabbit | LD50 > 20,000 mg/kg                             |
| POLYETHYLENE GLYCOL | Ingestion                      | Rat    | LD50 32,770 mg/kg                               |
| CERAMIC POWDER      | Dermal                         |        | LD50 estimated to be > 5,000 mg/kg              |
| CERAMIC POWDER      | Ingestion                      |        | LD50 estimated to be 2,000 - 5,000 mg/kg        |
| TITANIUM DIOXIDE    | Dermal                         | Rabbit | LD50 > 10,000 mg/kg                             |
| TITANIUM DIOXIDE    | Inhalation-Dust/Mist (4 hours) | Rat    | LC50 > 6.82 mg/l                                |
| TITANIUM DIOXIDE    | Ingestion                      | Rat    | LD50 > 10,000 mg/kg                             |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name                | Species | Value                     |
|---------------------|---------|---------------------------|
| POLYETHYLENE GLYCOL | Rabbit  | Minimal irritation        |
| CERAMIC POWDER      | Rabbit  | No significant irritation |
| TITANIUM DIOXIDE    | Rabbit  | No significant irritation |

### Serious Eye Damage/Irritation

| Name                | Species | Value                     |
|---------------------|---------|---------------------------|
| POLYETHYLENE GLYCOL | Rabbit  | Mild irritant             |
| CERAMIC POWDER      | Rabbit  | Mild irritant             |
| TITANIUM DIOXIDE    | Rabbit  | No significant irritation |

### Skin Sensitization

| Name                | Species          | Value           |
|---------------------|------------------|-----------------|
| POLYETHYLENE GLYCOL | Guinea pig       | Not sensitizing |
| TITANIUM DIOXIDE    | Human and animal | Not sensitizing |

### 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  |
|---------------------|----------|--|
| POLYETHYLENE GLYCOL | In Vitro | Not mutagenic  |
| POLYETHYLENE GLYCOL | In vivo  | Not mutagenic  |
| CERAMIC POWDER      | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| TITANIUM DIOXIDE    | In Vitro | Not mutagenic  |
| TITANIUM DIOXIDE    | In vivo  | Not mutagenic  |

### Carcinogenicity

| Name                | Route      | Species                 | Value  |
|---------------------|------------|-------------------------|--|
| POLYETHYLENE GLYCOL | Ingestion  | Rat                     | Not carcinogenic   |
| CERAMIC POWDER      | Inhalation | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| TITANIUM DIOXIDE    | Ingestion  | Multiple animal species | Not carcinogenic   |
| TITANIUM DIOXIDE    | Inhalation | Rat                     | Carcinogenic   |

### Reproductive Toxicity

### Reproductive and/or Developmental Effects

| Name                | Route         | Value   | Species | Test Result                   | Exposure Duration |
|---------------------|---------------|---|---------|-------------------------------|-------------------|
| POLYETHYLENE GLYCOL | Ingestion     | Not toxic to female reproduction  | Rat     | NOAEL 1,125 mg/kg/day         | during gestation  |
| POLYETHYLENE GLYCOL | Ingestion     | Not toxic to male reproduction  | Rat     | NOAEL 5699 +/- 1341 mg/kg/day | 5 days            |
| POLYETHYLENE GLYCOL | Not Specified | Some positive reproductive/developmental data exist, but the data are not sufficient for classification |         | NOEL N/A                      |                   |
| POLYETHYLENE GLYCOL | Ingestion     | Some positive developmental data exist, but the data are not sufficient for classification              | Mouse   | NOAEL 562 mg/animal/day       | during gestation  |

### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

| Name                | Route      | Target Organ(s)        | Value  | Species | Test Result      | Exposure Duration |
|---------------------|------------|------------------------|--|---------|------------------|-------------------|
| POLYETHYLENE GLYCOL | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 1.008 mg/l | 2 weeks           |

#### Specific Target Organ Toxicity - repeated exposure

| Name                | Route      | Target Organ(s)  | Value  | Species                 | Test Result           | Exposure Duration     |
|---------------------|------------|--|--|-------------------------|-----------------------|-----------------------|
| POLYETHYLENE GLYCOL | Inhalation | respiratory system   | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 1.008 mg/l      | 2 weeks               |
| POLYETHYLENE GLYCOL | Ingestion  | kidney and/or bladder  | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 5,640 mg/kg/day | 13 weeks              |
| POLYETHYLENE GLYCOL | Ingestion  | heart   endocrine system   hematopoietic system   liver   nervous system | All data are negative  | Rat                     | NOAEL 5,640 mg/kg/day | 13 weeks              |
| CERAMIC POWDER      | Inhalation | pulmonary fibrosis   | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL not available   |                       |
| CERAMIC POWDER      | Inhalation | respiratory system   | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL not available   | occupational exposure |
| TITANIUM DIOXIDE    | Inhalation | respiratory system   | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 0.01 mg/l       | 2 years               |
| TITANIUM DIOXIDE    | Inhalation | pulmonary fibrosis   | All data are negative  | 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.

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

**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.

#### 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - No Delayed Hazard - No

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

The components of this product are in compliance with the new substance notification requirements of CEPA.

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:** 0 **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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