



## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 16-5659-4 | <b>Version Number:</b>  | 8.00     |
| <b>Issue Date:</b>     | 11/20/18  | <b>Supersedes Date:</b> | 11/20/18 |

### Product identifier

3M™ ESPE™ RAMITEC™ PENTA™

### ID Number(s):

70-2011-2063-4, 70-2011-2065-9, 70-2011-3028-6

7000054991, 7000054925

### Recommended use

Dental Product, Impression, bite registration

### Restrictions on use

For use only by dental professionals

### 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)         |

### Emergency telephone number

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

**This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet (SDS), Article Information Sheet (AIS), or Article Information Letter (AIL) for each of these components is included. Please do not separate the component documents from this cover page. The document numbers for components of this product are:**

16-5633-9, 30-6571-1

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**Document Group:** 16-5633-9  
**Issue Date:** 03/02/21

**Version Number:** 7.00  
**Supersedes Date:** 11/20/18

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ RAMITEC™ PENTA™ CATALYST

#### Product Identification Numbers

LE-FSFD-3310-0

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

##### Recommended use

Dental Product, Bite registration

##### 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 1B.

Reproductive Toxicity: Category 2.

Specific Target Organ Toxicity (repeated exposure): Category 1.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Exclamation mark | Health Hazard |

**Pictograms****Hazard Statements**

May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.

Causes damage to organs through prolonged or repeated ingestion exposure:  
blood or blood-forming organs |

May cause damage to organs through prolonged or repeated ingestion exposure:  
respiratory system |  
sensory organs |

**Precautionary Statements****Prevention:**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

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.

IF exposed or concerned: Get medical advice/attention.

**Disposal:**

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

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

| <b>Ingredient</b>  | <b>C.A.S. No.</b> | <b>% by Wt</b>         |
|--|-------------------|------------------------|
| CITRIC ESTER   | 77-90-7           | 35 - 50 Trade Secret * |
| SILANE TREATAD SILICA                                    | 68909-20-6        | 20 - 30 Trade Secret * |
| SULFONIUM SALT   | 72140-65-9        | 15 - 30 Trade Secret * |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | 68855-54-9        | 1 - 20 Trade Secret *  |
| POLYETHYLENE-POLYPROPYLENE GLYCOL                        | 9003-11-6         | 1 - 5 Trade Secret *   |
| PIGMENT YELLOW   | 100208-62-6       | < 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:**

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

Allergic skin reaction (redness, swelling, blistering, and itching). Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

#### 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

Irritant Vapors or Gases

**Condition**

During Combustion

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

Do not handle until all safety precautions have been read and understood. 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. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Do not get in eyes. Use personal protective equipment (gloves, respirators, etc.) as required. A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove.

### 7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents.

## 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         |
|-------------------|------------|--------|--|-----------------------------|
| Cristobalite      | 68855-54-9 | ACGIH  | TWA(respirable fraction):0.025 mg/m3   | A2: Suspected human carcin. |
| Cristobalite      | 68855-54-9 | OSHA   | TWA concentration(respirable):0.05 mg/m3(1.2 millions of particles/cu. ft.);TWA:0.05 mg/m3 |                             |
| SILICA, AMORPHOUS | 68855-54-9 | OSHA   | TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m3                           |                             |
| SILICA, AMORPHOUS | 68909-20-6 | OSHA   | TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 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**

Yellow

**Specific Physical Form:**

Paste

**Odor**

Slight Odor, Characteristic Odor

**Odor threshold***No Data Available***pH***Not Applicable***Melting point***Not Applicable***Boiling Point***Not Applicable***Flash Point**

Flash point &gt; 93 °C (200 °F)

**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***Specific Gravity**

&gt; 1 [Ref Std: WATER=1]

**Solubility in Water**

Negligible

**Solubility- non-water***No Data Available***Partition coefficient: n-octanol/ water***No Data Available***Autoignition temperature***No Data Available***Decomposition temperature***No Data Available***Viscosity***No Data Available***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 may be reactive with certain agents under certain conditions - see the remaining headings in this section.

**10.2. Chemical stability**

Stable.

**10.3. Possibility of hazardous reactions**

Hazardous polymerization will not occur.

**10.4. Conditions to avoid**

Heat

**10.5. Incompatible materials**

Strong acids

Strong bases

Strong oxidizing agents

**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:**

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:**

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.

May cause additional health effects (see below).

**Additional Health Effects:****Prolonged or repeated exposure may cause target organ effects:**

Ocular Effects: Signs/symptoms may include blurred or significantly impaired vision.

Bone Marrow Effects: Signs/symptoms may include generalized weakness, pallor of the skin, fatty infiltration of the bone marrow, decreases in the numbers of circulating blood cells, increased susceptibility to infection.

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

**Reproductive/Developmental Toxicity:**

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.



**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                                  |
|-----------------------------|------------|--------------------------------|---|
| SILICA, CRYSTALLINE AIRRESP | 68855-54-9 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| SILICA, CRYSTALLINE AIRRESP | 68855-54-9 | Known human carcinogen         | National Toxicology Program Carcinogens     |

**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**

| Name   | Route                          | Species                | Value   |
|--|--------------------------------|------------------------|---|
| Overall product  | Ingestion                      |                        | No data available; calculated ATE 2,000 - 5,000 mg/kg |
| CITRIC ESTER   | Dermal                         | Professional judgement | LD50 estimated to be > 5,000 mg/kg                    |
| CITRIC ESTER   | Ingestion                      | Rat                    | LD50 > 25,000 mg/kg                                   |
| SILANE TREATAD SILICA                                    | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                                    |
| SILANE TREATAD SILICA                                    | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 0.691 mg/l                                     |
| SILANE TREATAD SILICA                                    | Ingestion                      | Rat                    | LD50 > 5,110 mg/kg                                    |
| SULFONIUM SALT   | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                                    |
| SULFONIUM SALT   | Ingestion                      | Rat                    | LD50 300-2,000 mg/kg                                  |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Dermal                         | Professional judgement | LD50 estimated to be > 5,000 mg/kg                    |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 2.7 mg/l                                       |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Ingestion                      | Rat                    | LD50 > 2,000 mg/kg                                    |
| POLYETHYLENE-POLYPROPYLENE GLYCOL                        | Dermal                         | Professional judgement | LD50 estimated to be > 5,000 mg/kg                    |
| POLYETHYLENE-POLYPROPYLENE GLYCOL                        | Ingestion                      | Rat                    | LD50 5,700 mg/kg                                      |
| PIGMENT YELLOW   | Dermal                         | Professional judgement | LD50 estimated to be > 5,000 mg/kg                    |
| PIGMENT YELLOW   | Ingestion                      | Rat                    | LD50 2,000 mg/kg                                      |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name   | Species       | Value                     |
|--|---------------|---------------------------|
| SILANE TREATAD SILICA                                    | Rabbit        | No significant irritation |
| SULFONIUM SALT   | Rabbit        | Mild irritant             |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | In vitro data | No significant irritation |

**Serious Eye Damage/Irritation**

| Name   | Species | Value                     |
|--|---------|---------------------------|
| SILANE TREATAD SILICA                                    | Rabbit  | No significant irritation |
| SULFONIUM SALT   | Rabbit  | Mild irritant             |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Rabbit  | Mild irritant             |

**Skin Sensitization**

| Name   | Species          | Value          |
|--|------------------|----------------|
| SILANE TREATAD SILICA                                    | Human and animal | Not classified |
| SULFONIUM SALT   | Mouse            | Sensitizing    |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Mouse            | Not classified |

**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  |
|--|----------|--|
| SILANE TREATAD SILICA                                    | In Vitro | Not mutagenic  |
| SULFONIUM SALT   | In Vitro | Not mutagenic  |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name   | Route         | Species          | Value  |
|--|---------------|------------------|--|
| SILANE TREATAD SILICA                                    | Not Specified | Mouse            | Some positive data exist, but the data are not sufficient for classification |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Inhalation    | Human and animal | Carcinogenic   |

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

| Name                  | Route     | Value                                  | Species | Test Result           | Exposure Duration        |
|-----------------------|-----------|--|---------|-----------------------|--------------------------|
| SILANE TREATAD SILICA | Ingestion | Not classified for female reproduction | Rat     | NOAEL 509 mg/kg/day   | 1 generation             |
| SILANE TREATAD SILICA | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 497 mg/kg/day   | 1 generation             |
| SILANE TREATAD SILICA | Ingestion | Not classified for development         | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis     |
| SULFONIUM SALT        | Ingestion | Not classified for development         | Rat     | NOAEL 100 mg/kg/day   | premating into lactation |
| SULFONIUM SALT        | Ingestion | Toxic to female reproduction           | Rat     | NOAEL 30 mg/kg/day    | premating into lactation |
| SULFONIUM SALT        | Ingestion | Toxic to male reproduction             | Rat     | NOAEL 30 mg/kg/day    | 30 days                  |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name           | Route     | Target Organ(s)    | Value          | Species | Test Result     | Exposure Duration |
|----------------|-----------|--------------------|----------------|---------|-----------------|-------------------|
| SULFONIUM SALT | Ingestion | respiratory system | Not classified | Rat     | NOAEL 300 mg/kg |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name                  | Route      | Target Organ(s)                | Value  | Species | Test Result         | Exposure Duration     |
|-----------------------|------------|--------------------------------|--|---------|---------------------|-----------------------|
| SILANE TREATAD SILICA | Inhalation | respiratory system   silicosis | Not classified   | Human   | NOAEL Not available | occupational exposure |
| SULFONIUM SALT        | Ingestion  | bone marrow                    | Causes damage to organs through prolonged or repeated exposure | Rat     | NOAEL 10 mg/kg/day  | 30 days               |

|  |            |  |  |       |                       |                       |
|--|------------|--|--|-------|-----------------------|-----------------------|
| SULFONIUM SALT   | Ingestion  | respiratory system   | May cause damage to organs though prolonged or repeated exposure | Rat   | NOAEL 30 mg/kg/day    | 30 days               |
| SULFONIUM SALT   | Ingestion  | eyes   | May cause damage to organs though prolonged or repeated exposure | Rat   | NOAEL 100 mg/kg/day   | 30 days               |
| SULFONIUM SALT   | Ingestion  | hematopoietic system   liver   immune system   kidney and/or bladder   | Not classified   | Rat   | NOAEL 300 mg/kg/day   | 30 days               |
| SULFONIUM SALT   | Ingestion  | gastrointestinal tract   | Not classified   | Rat   | NOAEL 30 mg/kg/day    | 30 days               |
| SULFONIUM SALT   | Ingestion  | auditory system   heart   skin   endocrine system   bone, teeth, nails, and/or hair   muscles   nervous system   vascular system | Not classified   | Rat   | NOAEL 300 mg/kg/day   | 30 days               |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Inhalation | silicosis  | Causes damage to organs through prolonged or repeated exposure   | Human | NOAEL Not available   | occupational exposure |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Ingestion  | hematopoietic system   eyes   kidney and/or bladder  | Not classified   | Rat   | NOAEL 3,738 mg/kg/day | 90 days               |

**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 completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. If no other disposal options are available, waste product that has been completely cured or polymerized 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.

#### EPCRA 311/312 Hazard Classifications:

##### Physical Hazards

Not applicable

##### Health Hazards

Reproductive toxicity

Respiratory or Skin Sensitization

Specific target organ toxicity (single or repeated exposure)

### 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.

**Document Group:** 16-5633-9

**Version Number:** 7.00

**Issue Date:** 03/02/21

**Supersedes Date:** 11/20/18

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 30-6571-1 | <b>Version Number:</b>  | 8.00     |
| <b>Issue Date:</b>     | 05/03/21  | <b>Supersedes Date:</b> | 02/03/21 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Ramitec™ Penta™ Base

#### Product Identification Numbers

LE-F100-1181-7

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

##### Recommended use

Dental Product, Impression Material

##### 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

Serious Eye Damage/Irritation: Category 2B.

Reproductive Toxicity: Category 1B.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Health Hazard |

**Pictograms****Hazard Statements**

Causes eye irritation.  
May damage fertility or the unborn child.

**Precautionary Statements****Prevention:**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves.  
Wash thoroughly after handling.

**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 exposed or concerned: Get medical advice/attention.

**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                |
|---|-------------|------------------------|
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | 110531-92-5 | 40 - 60 Trade Secret * |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%)                        | 68855-54-9  | 20 - 40 Trade Secret * |
| Benzene, bis(phenylmethyl)-, ar-methyl deriv.                                   | 53585-53-8  | 5 - 13 Trade Secret *  |
| FATTY ACIDS TRIGLYCERIDES   | 67701-27-3  | 5 - 10 Trade Secret *  |
| MAGNESIUM OXIDE   | 1309-48-4   | 1 - 5 Trade Secret *   |
| D-LIMONENE  | 5989-27-5   | < 0.2 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**

No critical symptoms or effects. 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

Irritant Vapors or Gases

**Condition**

During Combustion

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**

Avoid prolonged or repeated skin contact. Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Do not get in eyes. Use personal protective equipment (gloves, respirators, etc.) as required.

**7.2. Conditions for safe storage including any incompatibilities**

Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents.



## 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            |
|--|------------|--------|--|--------------------------------|
| MAGNESIUM OXIDE                            | 1309-48-4  | ACGIH  | TWA(inhalable fraction):10 mg/m3   | A4: Not class. as human carcin |
| MAGNESIUM OXIDE                            | 1309-48-4  | OSHA   | TWA(as total particulates):15 mg/m3  |                                |
| Cyclohexene, 1-methyl-4-(1-methylethenyl)- | 5989-27-5  | AIHA   | TWA:165.5 mg/m3(30 ppm)  |                                |
| Cristobalite                               | 68855-54-9 | ACGIH  | TWA(respirable fraction):0.025 mg/m3   | A2: Suspected human carcin.    |
| Cristobalite                               | 68855-54-9 | OSHA   | TWA concentration(respirable):0.05 mg/m3(1.2 millions of particles/cu. ft.);TWA:0.05 mg/m3 |                                |
| SILICA, AMORPHOUS                          | 68855-54-9 | OSHA   | TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 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  
Color

Solid  
White

Specific Physical Form:

Paste

Odor

Characteristic Odor

Odor threshold

*No Data Available*

pH

*Not Applicable*

Melting point

*No Data Available*

Boiling Point

*Not Applicable*

Flash Point

Flash point > 93 °C (200 °F)

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 - 1.2 g/ml [*@ 23 °C*]

Specific Gravity

> 1 [*@ 23 °C*] [*Ref Std: WATER=1*]

Solubility in Water

Negligible

Solubility- non-water

Negligible

Partition coefficient: n-octanol/ water

*No Data Available*

Autoignition temperature

*No Data Available*

Decomposition temperature

*No Data Available*

Viscosity

1,000 Pa-s - 1,300 Pa-s

Molecular weight

*No Data Available*

Volatile Organic Compounds

*Not Applicable*

Percent volatile

*Not Applicable*

VOC Less H<sub>2</sub>O & Exempt Solvents

*No Data Available*

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat

### 10.5. Incompatible materials

Strong acids

Strong bases

Strong oxidizing agents

### 10.6. Hazardous decomposition products

Substance

Condition

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.

##### Eye Contact:

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

##### Ingestion:

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

May cause additional health effects (see below).

#### Additional Health Effects:

##### Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

##### 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                                  |
|---------------------|------------|--------------------------------|---|
| SILICA, CRYSTALLINE | 68855-54-9 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| SILICA, CRYSTALLINE | 68855-54-9 | Known human carcinogen         | National Toxicology Program Carcinogens     |

#### 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

| Name            | Route     | Species | Value  |
|-----------------|-----------|---------|--|
| Overall product | Dermal    |         | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Ingestion |         | No data available; calculated ATE >5,000 mg/kg |

|   |                                |                        |  |
|---|--------------------------------|------------------------|--|
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | Dermal                         | Professional judgement | LD50 Not applicable                      |
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | Ingestion                      | Rat                    | LD50 > 2,000 mg/kg                       |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%)                        | Dermal                         | Professional judgement | LD50 estimated to be > 5,000 mg/kg       |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%)                        | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 2.7 mg/l                          |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%)                        | Ingestion                      | Rat                    | LD50 > 2,000 mg/kg                       |
| Benzene, bis(phenylmethyl)-, ar-methyl deriv.                                   | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                       |
| Benzene, bis(phenylmethyl)-, ar-methyl deriv.                                   | Ingestion                      | Rat                    | LD50 > 10,360 mg/kg                      |
| FATTY ACIDS TRIGLYCERIDES   | Dermal                         | Rabbit                 | LD50 > 2,000 mg/kg                       |
| FATTY ACIDS TRIGLYCERIDES   | Ingestion                      | Rat                    | LD50 > 2,000 mg/kg                       |
| MAGNESIUM OXIDE   | Dermal                         | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| MAGNESIUM OXIDE   | Ingestion                      | Rat                    | LD50 3,870 mg/kg                         |
| D-LIMONENE  | Inhalation-Vapor (4 hours)     | Mouse                  | LC50 > 3.14 mg/l                         |
| D-LIMONENE  | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                       |
| D-LIMONENE  | Ingestion                      | Rat                    | LD50 4,400 mg/kg                         |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name  | Species                | Value                     |
|---|------------------------|---------------------------|
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | Rabbit                 | No significant irritation |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%)                        | In vitro data          | No significant irritation |
| Benzene, bis(phenylmethyl)-, ar-methyl deriv.                                   | Rabbit                 | Mild irritant             |
| MAGNESIUM OXIDE   | Professional judgement | No significant irritation |
| D-LIMONENE  | Rabbit                 | Mild irritant             |

#### Serious Eye Damage/Irritation

| Name  | Species | Value                     |
|---|---------|---------------------------|
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | Rabbit  | Moderate irritant         |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%)                        | Rabbit  | Mild irritant             |
| Benzene, bis(phenylmethyl)-, ar-methyl deriv.                                   | Rabbit  | No significant irritation |
| D-LIMONENE  | Rabbit  | Mild irritant             |

#### Skin Sensitization

| Name  | Species    | Value          |
|---|------------|----------------|
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | Guinea pig | Not classified |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%)                        | Mouse      | Not classified |
| Benzene, bis(phenylmethyl)-, ar-methyl deriv.                                   | Guinea pig | Not classified |
| D-LIMONENE  | Mouse      | 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  |
|---|----------|--|
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | In Vitro | Not mutagenic  |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%)                        | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Benzene, bis(phenylmethyl)-, ar-methyl deriv.                                   | In Vitro | Not mutagenic  |
| Benzene, bis(phenylmethyl)-, ar-methyl deriv.                                   | In vivo  | Not mutagenic  |
| MAGNESIUM OXIDE   | In Vitro | Not mutagenic  |
| D-LIMONENE  | In Vitro | Not mutagenic  |
| D-LIMONENE  | In vivo  | Not mutagenic  |

**Carcinogenicity**

| Name   | Route         | Species          | Value  |
|--|---------------|------------------|--|
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Inhalation    | Human and animal | Carcinogenic   |
| MAGNESIUM OXIDE  | Not Specified | Human and animal | Some positive data exist, but the data are not sufficient for classification |
| D-LIMONENE   | Ingestion     | Rat              | Some positive data exist, but the data are not sufficient for classification |

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

| Name  | Route     | Value                                  | Species                 | Test Result         | Exposure Duration            |
|---|-----------|--|-------------------------|---------------------|------------------------------|
| Benzene, bis(phenylmethyl)-, ar-methyl deriv. | Ingestion | Toxic to male reproduction             | Rat                     | NOAEL 250 mg/kg/day | 28 days                      |
| Benzene, bis(phenylmethyl)-, ar-methyl deriv. | Ingestion | Toxic to female reproduction           | Rat                     | NOAEL 250 mg/kg/day | premating into lactation     |
| Benzene, bis(phenylmethyl)-, ar-methyl deriv. | Ingestion | Toxic to development                   | Rabbit                  | LOAEL 10 mg/kg/day  | during gestation             |
| D-LIMONENE                                    | Ingestion | Not classified for female reproduction | Rat                     | NOAEL 750 mg/kg/day | premating & during gestation |
| D-LIMONENE                                    | Ingestion | Not classified for development         | Multiple animal species | NOAEL 591 mg/kg/day | during organogenesis         |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name  | Route      | Target Organ(s)        | Value  | Species                | Test Result         | Exposure Duration |
|---|------------|------------------------|--|------------------------|---------------------|-------------------|
| Benzene, bis(phenylmethyl)-, ar-methyl deriv. | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL not available |                   |
| MAGNESIUM OXIDE                               | Inhalation | respiratory system     | Not classified   | Human                  | NOAEL Not available |                   |
| D-LIMONENE                                    | Ingestion  | nervous system         | Not classified   |                        | NOAEL Not available |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name   | Route      | Target Organ(s)                                     | Value  | Species | Test Result           | Exposure Duration     |
|--|------------|---|--|---------|-----------------------|-----------------------|
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Inhalation | silicosis   | Causes damage to organs through prolonged or repeated exposure | Human   | NOAEL Not available   | occupational exposure |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Ingestion  | hematopoietic system   eyes   kidney and/or bladder | Not classified   | Rat     | NOAEL 3,738 mg/kg/day | 90 days               |

|   |           |  |                |       |                       |           |
|---|-----------|--|----------------|-------|-----------------------|-----------|
| Benzene, bis(phenylmethyl)-, ar-methyl deriv. | Ingestion | liver   kidney and/or bladder   heart   skin   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles   nervous system   eyes   respiratory system   vascular system | Not classified | Rat   | NOAEL 500 mg/kg/day   | 120 days  |
| D-LIMONENE                                    | Ingestion | kidney and/or bladder  | Not classified | Rat   | LOAEL 75 mg/kg/day    | 103 weeks |
| D-LIMONENE                                    | Ingestion | liver  | Not classified | Mouse | NOAEL 1,000 mg/kg/day | 103 weeks |
| D-LIMONENE                                    | Ingestion | heart   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles   nervous system   respiratory system  | Not classified | Rat   | NOAEL 600 mg/kg/day   | 103 weeks |

**Aspiration Hazard**

| Name  | Value             |
|---|-------------------|
| Benzene, bis(phenylmethyl)-, ar-methyl deriv. | Aspiration hazard |
| D-LIMONENE                                    | Aspiration hazard |

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 completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. If no other disposal options are available, waste product that has been completely cured or polymerized 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.

#### EPCRA 311/312 Hazard Classifications:

##### Physical Hazards

Not applicable

##### Health Hazards

Reproductive toxicity

Serious eye damage or eye irritation

### 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:** 1 **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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