



## Safety Data Sheet

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|                        |           |                         |          |
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### Product identifier

3M™ ESPE™ IMPRINT™ 4 HEAVY Intro Kit

### ID Number(s):

70-2011-4232-3

### Recommended use

Dental Product, Impression Material

### 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:**

31-4838-4, 31-4841-8, 31-4872-3, 31-4879-8, 31-4882-2, 31-4863-2, 35-4552-2

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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ ESPE™ IMPRINT™ 4 HEAVY BASE

#### Product Identification Numbers

LE-F100-1307-2

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

##### Recommended use

Dental Product, Impression Material

##### Restrictions on use

For us 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.

### SECTION 3: Composition/information on ingredients

| Ingredient   | C.A.S. No. | % by Wt                |
|--|------------|------------------------|
| CRISTOBALITE   | 14464-46-1 | 40 - 60 Trade Secret * |
| VINYL-POLYDIMETHYL SILOXANE  | 68083-19-2 | 20 - 40 Trade Secret * |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID  | 68037-59-2 | 1 - 10 Trade Secret *  |
| SILANE TREATED SILICA  | 67762-90-7 | 1 - 10 Trade Secret *  |
| ALLYLTRIMETHYLSILANE   | 762-72-1   | < 5 Trade Secret *     |
| POLY(DIMETHYLSILOXANE)   | 63148-62-9 | < 5 Trade Secret *     |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED   | 27306-78-1 | < 5 Trade Secret *     |
| QUARTZ SILICA  | 14808-60-7 | < 1 Trade Secret *     |
| Oils, mint, <i>Mentha arvensis piperascensis</i> , var. <i>piperascens</i> , Labiatae. | 68917-18-0 | < 0.5 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:**

No need for first aid is anticipated.

**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**

| <u>Substance</u>         | <u>Condition</u>  |
|--------------------------|-------------------|
| Carbon monoxide          | During Combustion |
| Carbon dioxide           | During Combustion |
| Irritant Vapors or Gases | 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 eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

**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. Store away from amines.

**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.

| <b>Ingredient</b> | <b>C.A.S. No.</b> | <b>Agency</b> | <b>Limit type</b>  | <b>Additional Comments</b>  |
|-------------------|-------------------|---------------|--|-----------------------------|
| CRISTOBALITE      | 14464-46-1        | ACGIH         | TWA(respirable fraction):0.025 mg/m3   | A2: Suspected human carcin. |
| CRISTOBALITE      | 14464-46-1        | OSHA          | TWA concentration(respirable):0.05 mg/m3(1.2 millions of particles/cu. ft.);TWA:0.05 mg/m3 |                             |
| QUARTZ SILICA     | 14808-60-7        | ACGIH         | TWA(respirable   | A2: Suspected human         |

|                   |            |      |  |         |
|-------------------|------------|------|--|---------|
|                   |            |      | fraction):0.025 mg/m3  | carcin. |
| QUARTZ SILICA     | 14808-60-7 | OSHA | TWA Table Z-1(respirable):0.05 mg/m3;TWA Table Z-3(respirable):0.1 mg/m3 |         |
| SILICA, AMORPHOUS | 67762-90-7 | OSHA | TWA concentration:0.8 mg/m3;TWA:20 millions of particles/cu. ft.         |         |

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**

Minty

**Odor threshold**

No Data Available

**pH**

No Data Available

**Melting point**

Not Applicable

**Boiling Point**

Not Applicable

**Flash Point**

No flash point

**Evaporation rate**

No Data Available

**Flammability (solid, gas)**

Not Classified

**Flammable Limits(LEL)**

Not Applicable

**Flammable Limits(UEL)**

Not Applicable

**Vapor Pressure**

No Data Available

**Vapor Density**

No Data Available

|   |   |
|---|---|
| Density                                     | 1.3 g/cm <sup>3</sup> - 1.5 g/cm <sup>3</sup> |
| Specific Gravity                            | 1.3 - 1.5 [Ref Std: WATER=1]                  |
| Solubility in Water                         | Negligible                                    |
| Solubility- non-water                       | No Data Available                             |
| Partition coefficient: n-octanol/ water     | Not Applicable                                |
| 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 H <sub>2</sub> O & 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  
Amines

### 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.

#### 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.

| Ingredient              | CAS No.    | Class Description              | Regulation                                  |
|-------------------------|------------|--------------------------------|---|
| SILICA, CRYSTAL AIRRESP | 14464-46-1 | Known human carcinogen         | National Toxicology Program Carcinogens     |
| SILICA, CRYSTAL AIRRESP | 14808-60-7 | Known human carcinogen         | National Toxicology Program Carcinogens     |
| CRISTOBALITE            | 14464-46-1 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| QUARTZ SILICA           | 14808-60-7 | Grp. 1: Carcinogenic to humans | 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

| 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 |
| CRISTOBALITE                             | Dermal                         |                        | LD50 estimated to be > 5,000 mg/kg             |
| CRISTOBALITE                             | Ingestion                      |                        | LD50 estimated to be > 5,000 mg/kg             |
| VINYL-POLYDIMETHYL SILOXANE              | Dermal                         | Rabbit                 | LD50 > 15,440 mg/kg                            |
| VINYL-POLYDIMETHYL SILOXANE              | Ingestion                      | Rat                    | LD50 > 15,440 mg/kg                            |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID  | Dermal                         | Rabbit                 | LD50 > 2,000 mg/kg                             |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID  | Ingestion                      | Rat                    | LD50 > 2,000 mg/kg                             |
| SILANE TREATED SILICA                    | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                             |
| SILANE TREATED SILICA                    | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 0.691 mg/l                              |
| SILANE TREATED SILICA                    | Ingestion                      | Rat                    | LD50 > 5,110 mg/kg                             |
| ALLYLTRIMETHYLSILANE                     | Dermal                         | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg       |
| ALLYLTRIMETHYLSILANE                     | Ingestion                      | similar compounds      | LD50 estimated to be 2,000 - 5,000 mg/kg       |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED | Dermal                         | Rabbit                 | LD50 > 2,000 mg/kg                             |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED | Inhalation-Dust/Mist           | Rat                    | LC50 2 mg/l                                    |



|  |           |        |                                    |
|--|-----------|--------|------------------------------------|
|  | (4 hours) |        |                                    |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED                               | Ingestion | Rat    | LD50 > 2,000 mg/kg                 |
| POLY(DIMETHYLSILOXANE)   | Dermal    | Rabbit | LD50 > 19,400 mg/kg                |
| POLY(DIMETHYLSILOXANE)   | Ingestion | Rat    | LD50 > 17,000 mg/kg                |
| QUARTZ SILICA  | Dermal    |        | LD50 estimated to be > 5,000 mg/kg |
| QUARTZ SILICA  | Ingestion |        | LD50 estimated to be > 5,000 mg/kg |
| Oils, mint, Mentha arvensis piperascensis, var. piperascens, Labiatae. | Dermal    | Rabbit | LD50 > 5,000 mg/kg                 |
| Oils, mint, Mentha arvensis piperascensis, var. piperascens, Labiatae. | Ingestion | Rat    | LD50 1,240 mg/kg                   |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name   | Species                | Value                     |
|--|------------------------|---------------------------|
| CRISTOBALITE   | Professional judgement | No significant irritation |
| VINYL-POLYDIMETHYL SILOXANE  | Rabbit                 | No significant irritation |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID                                | Rabbit                 | No significant irritation |
| SILANE TREATED SILICA  | Rabbit                 | No significant irritation |
| ALLYLTRIMETHYLSILANE   | Not available          | Irritant                  |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED                               | Rabbit                 | No significant irritation |
| POLY(DIMETHYLSILOXANE)   | Rabbit                 | No significant irritation |
| QUARTZ SILICA  | Professional judgement | No significant irritation |
| Oils, mint, Mentha arvensis piperascensis, var. piperascens, Labiatae. | Rabbit                 | Mild irritant             |

**Serious Eye Damage/Irritation**

| Name   | Species       | Value                     |
|--|---------------|---------------------------|
| VINYL-POLYDIMETHYL SILOXANE  | Rabbit        | Mild irritant             |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID                                | Rabbit        | Mild irritant             |
| SILANE TREATED SILICA  | Rabbit        | No significant irritation |
| ALLYLTRIMETHYLSILANE   | Not available | Severe irritant           |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED                               | Rabbit        | Severe irritant           |
| POLY(DIMETHYLSILOXANE)   | Rabbit        | No significant irritation |
| Oils, mint, Mentha arvensis piperascensis, var. piperascens, Labiatae. | In vitro data | Severe irritant           |

**Skin Sensitization**

| Name   | Species          | Value          |
|--|------------------|----------------|
| DIMETHYL METHYL HYDROGEN SILICONE FLUID                                | Guinea pig       | Not classified |
| SILANE TREATED SILICA  | Human and animal | Not classified |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED                               | Guinea pig       | Not classified |
| Oils, mint, Mentha arvensis piperascensis, var. piperascens, Labiatae. | Guinea pig       | 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 |
|------|-------|-------|
|      |       |       |

|  |          |  |
|--|----------|--|
| CRISTOBALITE                             | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| CRISTOBALITE                             | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID  | In Vitro | Not mutagenic  |
| SILANE TREATED SILICA                    | In Vitro | Not mutagenic  |
| ALLYLTRIMETHYLSILANE                     | In Vitro | Not mutagenic  |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED | In Vitro | Not mutagenic  |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED | In vivo  | Not mutagenic  |
| QUARTZ SILICA                            | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| QUARTZ SILICA                            | In vivo  | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name                  | Route         | Species          | Value  |
|-----------------------|---------------|------------------|--|
| CRISTOBALITE          | Inhalation    | Human and animal | Carcinogenic   |
| SILANE TREATED SILICA | Not Specified | Mouse            | Some positive data exist, but the data are not sufficient for classification |
| QUARTZ SILICA         | Inhalation    | Human and animal | Carcinogenic   |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name                                     | Route     | Value  | Species | Test Result           | Exposure Duration              |
|--|-----------|--|---------|-----------------------|--------------------------------|
| SILANE TREATED SILICA                    | Ingestion | Not classified for female reproduction             | Rat     | NOAEL 509 mg/kg/day   | 1 generation                   |
| SILANE TREATED SILICA                    | Ingestion | Not classified for male reproduction               | Rat     | NOAEL 497 mg/kg/day   | 1 generation                   |
| SILANE TREATED SILICA                    | Ingestion | Not classified for development                     | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis           |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED | Ingestion | Not classified for reproduction and/or development | Rat     | NOAEL 450 mg/kg/day   | prematuring & during gestation |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

| Name                 | Route      | Target Organ(s)        | Value                            | Species       | Test Result         | Exposure Duration |
|----------------------|------------|------------------------|----------------------------------|---------------|---------------------|-------------------|
| ALLYLTRIMETHYLSILANE | Inhalation | respiratory irritation | May cause respiratory irritation | Not available | NOAEL Not available |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name                  | Route      | Target Organ(s)                | Value  | Species | Test Result         | Exposure Duration     |
|-----------------------|------------|--------------------------------|--|---------|---------------------|-----------------------|
| CRISTOBALITE          | Inhalation | silicosis                      | Causes damage to organs through prolonged or repeated exposure | Human   | NOAEL Not available | occupational exposure |
| SILANE TREATED SILICA | Inhalation | respiratory system   silicosis | Not classified   | Human   | NOAEL Not available | occupational exposure |
| QUARTZ SILICA         | Inhalation | silicosis                      | Causes damage to organs through prolonged or repeated exposure | 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.

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration 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.

#### EPCRA 311/312 Hazard Classifications:

| Physical Hazards |
|------------------|
| Not applicable   |

| Health Hazards |
|----------------|
| Not applicable |

### 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.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

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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|------------------------|-----------|-------------------------|----------|
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| <b>Issue Date:</b>     | 02/19/20  | <b>Supersedes Date:</b> | 02/25/16 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ ESPE™ IMPRINT™ 4 HEAVY CATALYST

#### Product Identification Numbers

LE-F100-1307-3

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

##### Recommended use

Dental Product, Impression Material

##### Restrictions on use

For us 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.

### SECTION 3: Composition/information on ingredients

| Ingredient                 | C.A.S. No. | % by Wt                |
|----------------------------|------------|------------------------|
| CRISTOBALITE               | 14464-46-1 | 40 - 60 Trade Secret * |
| VINYL-POLYDIMETHYLSILOXANE | 68083-19-2 | 30 - 40 Trade Secret * |
| POLY(DIMETHYLSILOXANE)     | 63148-62-9 | 1 - 10 Trade Secret *  |
| SILANE TREATED SILICA      | 67762-90-7 | 1 - 10 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  
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**

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 eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

**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. Store away from amines.

**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      | 14464-46-1 | ACGIH  | TWA(respirable fraction):0.025 mg/m <sup>3</sup>  | A2: Suspected human carcin. |
| CRISTOBALITE      | 14464-46-1 | OSHA   | TWA concentration(respirable):0.05 mg/m <sup>3</sup> (1.2 millions of particles/cu. ft.);TWA:0.05 mg/m <sup>3</sup> |                             |
| SILICA, AMORPHOUS | 67762-90-7 | OSHA   | TWA concentration:0.8 mg/m <sup>3</sup> ;TWA:20 millions of particles/cu. ft.                                       |                             |

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**

Blue

**Specific Physical Form:**

Paste

**Odor**

Slight Odor, Characteristic Odor

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

Flash point &gt; 93 °C (200 °F)

**Evaporation rate***No Data Available***Flammability (solid, gas)**

Not Classified

**Flammable Limits(LEL)***Not Applicable***Flammable Limits(UEL)***Not Applicable***Vapor Pressure***No Data Available***Vapor Density***No Data Available***Density**1.4 g/cm<sup>3</sup> - 1.6 g/cm<sup>3</sup>**Specific Gravity**

1.4 - 1.6 [Ref Std: WATER=1]

**Solubility in Water**

Negligible

**Solubility- non-water***No Data Available***Partition coefficient: n-octanol/ water***Not Applicable***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 H<sub>2</sub>O & 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

Amines

Strong acids

Strong bases

Strong oxidizing agents

#### 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:

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.

| Ingredient                | CAS No.    | Class Description              | Regulation                                  |
|---------------------------|------------|--------------------------------|---|
| SILICA, CRYST AIRRESP     | 14464-46-1 | Known human carcinogen         | National Toxicology Program Carcinogens     |
| Generic: CAS NO SEQ200640 | 14464-46-1 | Grp. 2B: Possible human carc.  | International Agency for Research on Cancer |
| Generic: GLASS FILAMENTS  | 14464-46-1 | Anticipated human carcinogen   | National Toxicology Program Carcinogens     |
| CRISTOBALITE              | 14464-46-1 | Grp. 1: Carcinogenic to humans | 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

| Name                       | Route                          | Species | Value  |
|----------------------------|--------------------------------|---------|--|
| Overall product            | Ingestion                      |         | No data available; calculated ATE >5,000 mg/kg |
| CRISTOBALITE               | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg             |
| CRISTOBALITE               | Ingestion                      |         | LD50 estimated to be > 5,000 mg/kg             |
| VINYL-POLYDIMETHYLSILOXANE | Dermal                         | Rabbit  | LD50 > 15,440 mg/kg                            |
| VINYL-POLYDIMETHYLSILOXANE | Ingestion                      | Rat     | LD50 > 15,440 mg/kg                            |
| SILANE TREATED SILICA      | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| SILANE TREATED SILICA      | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 0.691 mg/l                              |
| SILANE TREATED SILICA      | Ingestion                      | Rat     | LD50 > 5,110 mg/kg                             |
| POLY(DIMETHYLSILOXANE)     | Dermal                         | Rabbit  | LD50 > 19,400 mg/kg                            |
| POLY(DIMETHYLSILOXANE)     | Ingestion                      | Rat     | LD50 > 17,000 mg/kg                            |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                       | Species               | Value                     |
|----------------------------|-----------------------|---------------------------|
| CRISTOBALITE               | Professional judgment | No significant irritation |
| VINYL-POLYDIMETHYLSILOXANE | Rabbit                | No significant irritation |
| SILANE TREATED SILICA      | Rabbit                | No significant irritation |
| POLY(DIMETHYLSILOXANE)     | Rabbit                | No significant irritation |

#### Serious Eye Damage/Irritation

| Name                       | Species | Value                     |
|----------------------------|---------|---------------------------|
| VINYL-POLYDIMETHYLSILOXANE | Rabbit  | Mild irritant             |
| SILANE TREATED SILICA      | Rabbit  | No significant irritation |
| POLY(DIMETHYLSILOXANE)     | Rabbit  | No significant irritation |

#### Skin Sensitization

| Name                  | Species          | Value          |
|-----------------------|------------------|----------------|
| SILANE TREATED SILICA | Human and animal | 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  |
|-----------------------|----------|--|
| CRISTOBALITE          | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| CRISTOBALITE          | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| SILANE TREATED SILICA | In Vitro | Not mutagenic  |

**Carcinogenicity**

| Name                  | Route         | Species          | Value  |
|-----------------------|---------------|------------------|--|
| CRISTOBALITE          | Inhalation    | Human and animal | Carcinogenic   |
| SILANE TREATED SILICA | Not Specified | Mouse            | 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    |
|-----------------------|-----------|--|---------|-----------------------|----------------------|
| SILANE TREATED SILICA | Ingestion | Not classified for female reproduction | Rat     | NOAEL 509 mg/kg/day   | 1 generation         |
| SILANE TREATED SILICA | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 497 mg/kg/day   | 1 generation         |
| SILANE TREATED SILICA | Ingestion | Not classified for development         | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

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

**Specific Target Organ Toxicity - repeated exposure**

| Name                  | Route      | Target Organ(s)                | Value  | Species | Test Result         | Exposure Duration     |
|-----------------------|------------|--------------------------------|--|---------|---------------------|-----------------------|
| CRISTOBALITE          | Inhalation | silicosis                      | Causes damage to organs through prolonged or repeated exposure | Human   | NOAEL Not available | occupational exposure |
| SILANE TREATED SILICA | Inhalation | respiratory system   silicosis | 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. 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.

#### EPCRA 311/312 Hazard Classifications:

##### Physical Hazards

Not applicable

##### Health Hazards

Not applicable

### 15.2. State Regulations

Contact 3M for more information.

#### California Proposition 65

| <u>Ingredient</u>                               | <u>C.A.S. No.</u> | <u>Listing</u> |
|---|-------------------|----------------|
| GLASS WOOL FIBERS (INHALABLE AND BIOPERSISTENT) | None              | Carcinogen     |

### 15.3. Chemical Inventories

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

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

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.

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 31-4841-8 | <b>Version Number:</b>  | 3.01     |
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## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 31-4863-2 | <b>Version Number:</b>  | 4.00     |
| <b>Issue Date:</b>     | 12/09/19  | <b>Supersedes Date:</b> | 02/25/16 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ ESPE™ IMPRINT™ 4 LIGHT BASE

#### Product Identification Numbers

LE-F100-1309-1

#### 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

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.

**Precautionary Statements**

**Prevention:**

Wear eye/face protection.

### SECTION 3: Composition/information on ingredients

| Ingredient   | C.A.S. No.    | % by Wt                |
|--|---------------|------------------------|
| CRISTOBALITE   | 14464-46-1    | 20 - 40 Trade Secret * |
| VINYL-POLYDIMETHYL SILOXANE  | 68083-19-2    | 30 - 40 Trade Secret * |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID                                | 68037-59-2    | 10 - 20 Trade Secret * |
| SILANE TREATED SILICA  | 67762-90-7    | 1 - 10 Trade Secret *  |
| ALLYLTRIMETHYLSILANE   | 762-72-1      | < 5 Trade Secret *     |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED                               | 27306-78-1    | < 5 Trade Secret *     |
| FLUORINATED POLYETHER  | Trade Secret* | < 5 Trade Secret *     |
| Oils, mint, Mentha arvensis piperascensis, var. piperascens, Labiatae. | 68917-18-0    | < 0.5 Trade Secret *   |
| QUARTZ SILICA  | 14808-60-7    | < 0.5 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**

Material will not burn.

**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**

No special protective actions for fire-fighters are anticipated.

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

Evacuate area. Ventilate the area with fresh air. 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 eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

**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. Store away from amines.

**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.

| <b>Ingredient</b> | <b>C.A.S. No.</b> | <b>Agency</b> | <b>Limit type</b>  | <b>Additional Comments</b>  |
|-------------------|-------------------|---------------|--|-----------------------------|
| CRISTOBALITE      | 14464-46-1        | ACGIH         | TWA(respirable fraction):0.025 mg/m3                     | A2: Suspected human carcin. |
| CRISTOBALITE      | 14464-46-1        | OSHA          | TWA concentration(respirable):0.05 mg/m3(1.2 millions of |                             |



|                   |            |       |  |                             |
|-------------------|------------|-------|--|-----------------------------|
|                   |            |       | particles/cu. ft.);TWA:0.05 mg/m3  |                             |
| QUARTZ SILICA     | 14808-60-7 | ACGIH | TWA(respirable fraction):0.025 mg/m3                                     | A2: Suspected human carcin. |
| QUARTZ SILICA     | 14808-60-7 | OSHA  | TWA Table Z-1(respirable):0.05 mg/m3;TWA Table Z-3(respirable):0.1 mg/m3 |                             |
| SILICA, AMORPHOUS | 67762-90-7 | OSHA  | TWA concentration:0.8 mg/m3;TWA:20 millions of particles/cu. ft.         |                             |

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

Respiratory protection is not required.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

##### Physical state

Solid

##### Color

White

#### Specific Physical Form:

Paste

#### Odor

Minty

#### Odor threshold

No Data Available

#### pH

No Data Available

#### Melting point

Not Applicable

#### Boiling Point

Not Applicable

#### Flash Point

No flash point

#### Evaporation rate

No Data Available

#### Flammability (solid, gas)

Not Classified

|   |   |
|---|---|
| Flammable Limits(LEL)                       | <i>Not Applicable</i>                         |
| Flammable Limits(UEL)                       | <i>Not Applicable</i>                         |
| Vapor Pressure                              | <i>No Data Available</i>                      |
| Vapor Density                               | <i>No Data Available</i>                      |
| Density                                     | 1.1 g/cm <sup>3</sup> - 1.3 g/cm <sup>3</sup> |
| Specific Gravity                            | 1.1 - 1.3 [Ref Std:WATER=1]                   |
| Solubility in Water                         | Negligible                                    |
| 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>                      |
| Volatile Organic Compounds                  | <i>Not Applicable</i>                         |
| Percent volatile                            | <i>Not Applicable</i>                         |
| VOC Less H <sub>2</sub> O & Exempt Solvents | <i>Not Applicable</i>                         |

## 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

Amines  
Strong acids  
Strong bases  
Strong oxidizing agents

### 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.

##### 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.

| Ingredient              | CAS No.    | Class Description              | Regulation                                  |
|-------------------------|------------|--------------------------------|---|
| SILICA, CRYSTAL AIRRESP | 14464-46-1 | Known human carcinogen         | National Toxicology Program Carcinogens     |
| SILICA, CRYSTAL AIRRESP | 14808-60-7 | Known human carcinogen         | National Toxicology Program Carcinogens     |
| CRISTOBALITE            | 14464-46-1 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| QUARTZ SILICA           | 14808-60-7 | Grp. 1: Carcinogenic to humans | 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

| 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 |
| VINYL-POLYDIMETHYL SILOXANE              | Dermal                         | Rabbit  | LD50 > 15,440 mg/kg                            |
| VINYL-POLYDIMETHYL SILOXANE              | Ingestion                      | Rat     | LD50 > 15,440 mg/kg                            |
| CRISTOBALITE                             | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg             |
| CRISTOBALITE                             | Ingestion                      |         | LD50 estimated to be > 5,000 mg/kg             |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID  | Dermal                         | Rabbit  | LD50 > 2,000 mg/kg                             |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID  | Ingestion                      | Rat     | LD50 > 2,000 mg/kg                             |
| SILANE TREATED SILICA                    | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| SILANE TREATED SILICA                    | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 0.691 mg/l                              |
| SILANE TREATED SILICA                    | Ingestion                      | Rat     | LD50 > 5,110 mg/kg                             |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED | Dermal                         | Rabbit  | LD50 > 2,000 mg/kg                             |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 2 mg/l                                    |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED | Ingestion                      | Rat     | LD50 > 2,000 mg/kg                             |

|  |           |                        |  |
|--|-----------|------------------------|--|
| ALLYLTRIMETHYLSILANE   | Dermal    | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| ALLYLTRIMETHYLSILANE   | Ingestion | similar compounds      | LD50 estimated to be 2,000 - 5,000 mg/kg |
| FLUORINATED POLYETHER  | Dermal    | Professional judgement | LD50 estimated to be > 5,000 mg/kg       |
| FLUORINATED POLYETHER  | Ingestion | Rat                    | LD50 > 1,000 mg/kg                       |
| Oils, mint, <i>Mentha arvensis piperascensis</i> , var. <i>piperascens</i> , Labiatae. | Dermal    | Rabbit                 | LD50 > 5,000 mg/kg                       |
| Oils, mint, <i>Mentha arvensis piperascensis</i> , var. <i>piperascens</i> , Labiatae. | Ingestion | Rat                    | LD50 1,240 mg/kg                         |
| QUARTZ SILICA  | Dermal    |                        | LD50 estimated to be > 5,000 mg/kg       |
| QUARTZ SILICA  | Ingestion |                        | LD50 estimated to be > 5,000 mg/kg       |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name   | Species                | Value                     |
|--|------------------------|---------------------------|
| VINYL-POLYDIMETHYL SILOXANE  | Rabbit                 | No significant irritation |
| CRISTOBALITE   | Professional judgement | No significant irritation |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID  | Rabbit                 | No significant irritation |
| SILANE TREATED SILICA  | Rabbit                 | No significant irritation |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED   | Rabbit                 | No significant irritation |
| ALLYLTRIMETHYLSILANE   | Not available          | Irritant                  |
| Oils, mint, <i>Mentha arvensis piperascensis</i> , var. <i>piperascens</i> , Labiatae. | Rabbit                 | Mild irritant             |
| QUARTZ SILICA  | Professional judgement | No significant irritation |

### Serious Eye Damage/Irritation

| Name   | Species       | Value                     |
|--|---------------|---------------------------|
| VINYL-POLYDIMETHYL SILOXANE  | Rabbit        | Mild irritant             |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID  | Rabbit        | Mild irritant             |
| SILANE TREATED SILICA  | Rabbit        | No significant irritation |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED   | Rabbit        | Severe irritant           |
| ALLYLTRIMETHYLSILANE   | Not available | Severe irritant           |
| Oils, mint, <i>Mentha arvensis piperascensis</i> , var. <i>piperascens</i> , Labiatae. | In vitro data | Severe irritant           |

### Skin Sensitization

| Name   | Species          | Value          |
|--|------------------|----------------|
| DIMETHYL METHYL HYDROGEN SILICONE FLUID  | Guinea pig       | Not classified |
| SILANE TREATED SILICA  | Human and animal | Not classified |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED   | Guinea pig       | Not classified |
| Oils, mint, <i>Mentha arvensis piperascensis</i> , var. <i>piperascens</i> , Labiatae. | Guinea pig       | 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  |
|--|----------|--|
| CRISTOBALITE                             | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| CRISTOBALITE                             | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID  | In Vitro | Not mutagenic  |
| SILANE TREATED SILICA                    | In Vitro | Not mutagenic  |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED | In Vitro | Not mutagenic  |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED | In vivo  | Not mutagenic  |
| ALLYLTRIMETHYLSILANE                     | In Vitro | Not mutagenic  |
| QUARTZ SILICA                            | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| QUARTZ SILICA                            | In vivo  | Some positive data exist, but the data are not sufficient for classification |

### Carcinogenicity

| Name                  | Route         | Species          | Value  |
|-----------------------|---------------|------------------|--|
| CRISTOBALITE          | Inhalation    | Human and animal | Carcinogenic   |
| SILANE TREATED SILICA | Not Specified | Mouse            | Some positive data exist, but the data are not sufficient for classification |
| QUARTZ SILICA         | Inhalation    | Human and animal | Carcinogenic   |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name                                     | Route     | Value  | Species | Test Result           | Exposure Duration              |
|--|-----------|--|---------|-----------------------|--------------------------------|
| SILANE TREATED SILICA                    | Ingestion | Not classified for female reproduction             | Rat     | NOAEL 509 mg/kg/day   | 1 generation                   |
| SILANE TREATED SILICA                    | Ingestion | Not classified for male reproduction               | Rat     | NOAEL 497 mg/kg/day   | 1 generation                   |
| SILANE TREATED SILICA                    | Ingestion | Not classified for development                     | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis           |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED | Ingestion | Not classified for reproduction and/or development | Rat     | NOAEL 450 mg/kg/day   | prematuring & during gestation |
| FLUORINATED POLYETHER                    | Ingestion | Not classified for reproduction and/or development | Rat     | NOAEL 1,000 mg/kg/day | prematuring into lactation     |
| FLUORINATED POLYETHER                    | Ingestion | Not classified for female reproduction             | Rat     | NOAEL 1,000 mg/kg/day | prematuring into lactation     |
| FLUORINATED POLYETHER                    | Ingestion | Not classified for male reproduction               | Rat     | NOAEL 1,000 mg/kg/day | prematuring into lactation     |

### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

| Name                 | Route      | Target Organ(s)        | Value                            | Species       | Test Result         | Exposure Duration |
|----------------------|------------|------------------------|----------------------------------|---------------|---------------------|-------------------|
| ALLYLTRIMETHYLSILANE | Inhalation | respiratory irritation | May cause respiratory irritation | Not available | NOAEL Not available |                   |

#### Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|------|-------|-----------------|-------|---------|-------------|-------------------|
|------|-------|-----------------|-------|---------|-------------|-------------------|

|                       |            |   |  |       |                       |                       |
|-----------------------|------------|---|--|-------|-----------------------|-----------------------|
| CRISTOBALITE          | Inhalation | silicosis   | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available   | occupational exposure |
| SILANE TREATED SILICA | Inhalation | respiratory system   silicosis  | Not classified   | Human | NOAEL Not available   | occupational exposure |
| FLUORINATED POLYETHER | Ingestion  | auditory system   heart   endocrine system   hematopoietic system   liver   immune system   muscles   nervous system   eyes | Not classified   | Rat   | NOAEL 1,000 mg/kg/day | 28 days               |
| QUARTZ SILICA         | Inhalation | silicosis   | Causes damage to organs through prolonged or repeated exposure | 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.

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste 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.

**EPCRA 311/312 Hazard Classifications:****Physical Hazards**

Not applicable

**Health Hazards**

Not applicable

**Additional TSCA Information**

| <b>Components</b>     | <b>CAS No</b> | <b>Additional Information</b>  |
|-----------------------|---------------|--|
| FLUORINATED POLYETHER | Trade Secret  | Manufacturing of this substance is strictly prohibited of an average molecular weight (MW) less than 1000 daltons, or more than 5 percent oligomeric material less than 500 daltons, or 10 percent oligomeric material less than 1000 daltons. |

**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.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

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:** 0 **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:** 31-4863-2 **Version Number:** 4.00  
**Issue Date:** 12/09/19 **Supersedes Date:** 02/25/16

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## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 31-4872-3 | <b>Version Number:</b>  | 4.00     |
| <b>Issue Date:</b>     | 01/03/20  | <b>Supersedes Date:</b> | 02/25/16 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ ESPE™ IMPRINT™ 4 LIGHT CATALYST

#### Product Identification Numbers

LE-F100-1309-6

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

##### Recommended use

Dental Product, Impression Material

##### Restrictions on use

For us 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.

### SECTION 3: Composition/information on ingredients

| Ingredient                 | C.A.S. No. | % by Wt                |
|----------------------------|------------|------------------------|
| VINYL-POLYDIMETHYLSILOXANE | 68083-19-2 | 40 - 60 Trade Secret * |
| CRISTOBALITE               | 14464-46-1 | 20 - 50 Trade Secret * |
| POLY(DIMETHYLSILOXANE)     | 63148-62-9 | 1 - 10 Trade Secret *  |
| SILANE TREATED SILICA      | 67762-90-7 | 1 - 10 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  
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**

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 eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

**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. Store away from amines.

**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      | 14464-46-1 | ACGIH  | TWA(respirable fraction):0.025 mg/m3   | A2: Suspected human carcin. |
| CRISTOBALITE      | 14464-46-1 | OSHA   | TWA concentration(respirable):0.05 mg/m3(1.2 millions of particles/cu. ft.);TWA:0.05 mg/m3 |                             |
| SILICA, AMORPHOUS | 67762-90-7 | OSHA   | TWA concentration:0.8 mg/m3;TWA:20 millions of particles/cu. ft.                           |                             |

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

Pink

Specific Physical Form:

Paste

Odor

Slight Odor, Characteristic Odor

Odor threshold

*No Data Available*

pH

*No Data Available*

Melting point

*Not Applicable*

Boiling Point

*Not Applicable*

Flash Point

No flash point

Evaporation rate

*No Data Available*

Flammability (solid, gas)

Not Classified

Flammable Limits(LEL)

*Not Applicable*

Flammable Limits(UEL)

*Not Applicable*

Vapor Pressure

*No Data Available*

Vapor Density

*No Data Available*

Density

1.2 g/cm<sup>3</sup> - 1.4 g/cm<sup>3</sup>

Specific Gravity

1.2 - 1.4 [Ref Std: WATER=1]

Solubility in Water

Negligible

Solubility- non-water

*No Data Available*

Partition coefficient: n-octanol/ water

*Not Applicable*

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 H<sub>2</sub>O & 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**

Amines

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:**

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.

| Ingredient            | CAS No.    | Class Description              | Regulation                                  |
|-----------------------|------------|--------------------------------|---|
| SILICA, CRYST AIRRESP | 14464-46-1 | Known human carcinogen         | National Toxicology Program Carcinogens     |
| CRISTOBALITE          | 14464-46-1 | Grp. 1: Carcinogenic to humans | 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

| Name                       | Route                          | Species | Value  |
|----------------------------|--------------------------------|---------|--|
| Overall product            | Ingestion                      |         | No data available; calculated ATE >5,000 mg/kg |
| VINYL-POLYDIMETHYLSILOXANE | Dermal                         | Rabbit  | LD50 > 15,440 mg/kg                            |
| VINYL-POLYDIMETHYLSILOXANE | Ingestion                      | Rat     | LD50 > 15,440 mg/kg                            |
| CRISTOBALITE               | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg             |
| CRISTOBALITE               | Ingestion                      |         | LD50 estimated to be > 5,000 mg/kg             |
| SILANE TREATED SILICA      | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| SILANE TREATED SILICA      | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 0.691 mg/l                              |
| SILANE TREATED SILICA      | Ingestion                      | Rat     | LD50 > 5,110 mg/kg                             |
| POLY(DIMETHYLSILOXANE)     | Dermal                         | Rabbit  | LD50 > 19,400 mg/kg                            |
| POLY(DIMETHYLSILOXANE)     | Ingestion                      | Rat     | LD50 > 17,000 mg/kg                            |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                       | Species                | Value                     |
|----------------------------|------------------------|---------------------------|
| VINYL-POLYDIMETHYLSILOXANE | Rabbit                 | No significant irritation |
| CRISTOBALITE               | Professional judgement | No significant irritation |
| SILANE TREATED SILICA      | Rabbit                 | No significant irritation |
| POLY(DIMETHYLSILOXANE)     | Rabbit                 | No significant irritation |

#### Serious Eye Damage/Irritation

| Name                       | Species | Value                     |
|----------------------------|---------|---------------------------|
| VINYL-POLYDIMETHYLSILOXANE | Rabbit  | Mild irritant             |
| SILANE TREATED SILICA      | Rabbit  | No significant irritation |
| POLY(DIMETHYLSILOXANE)     | Rabbit  | No significant irritation |

#### Skin Sensitization

| Name                  | Species          | Value          |
|-----------------------|------------------|----------------|
| SILANE TREATED SILICA | Human and animal | 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  |
|-----------------------|----------|--|
| CRISTOBALITE          | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| CRISTOBALITE          | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| SILANE TREATED SILICA | In Vitro | Not mutagenic  |

**Carcinogenicity**

| Name                  | Route         | Species          | Value  |
|-----------------------|---------------|------------------|--|
| CRISTOBALITE          | Inhalation    | Human and animal | Carcinogenic   |
| SILANE TREATED SILICA | Not Specified | Mouse            | 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    |
|-----------------------|-----------|--|---------|-----------------------|----------------------|
| SILANE TREATED SILICA | Ingestion | Not classified for female reproduction | Rat     | NOAEL 509 mg/kg/day   | 1 generation         |
| SILANE TREATED SILICA | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 497 mg/kg/day   | 1 generation         |
| SILANE TREATED SILICA | Ingestion | Not classified for development         | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis |

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

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

**Specific Target Organ Toxicity - repeated exposure**

| Name                  | Route      | Target Organ(s)                | Value  | Species | Test Result         | Exposure Duration     |
|-----------------------|------------|--------------------------------|--|---------|---------------------|-----------------------|
| CRISTOBALITE          | Inhalation | silicosis                      | Causes damage to organs through prolonged or repeated exposure | Human   | NOAEL Not available | occupational exposure |
| SILANE TREATED SILICA | Inhalation | respiratory system   silicosis | 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. 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.

#### EPCRA 311/312 Hazard Classifications:

##### Physical Hazards

Not applicable

##### Health Hazards

Not applicable

### 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.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

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.

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 31-4872-3 | <b>Version Number:</b>  | 4.00     |
| <b>Issue Date:</b>     | 01/03/20  | <b>Supersedes Date:</b> | 02/25/16 |

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## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ ESPE™IMPRINT™ 4 REGULAR BASE

#### Product Identification Numbers

LE-F100-1309-8

#### 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

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.

### SECTION 3: Composition/information on ingredients

| Ingredient   | C.A.S. No.    | % by Wt                |
|--|---------------|------------------------|
| VINYL-POLYDIMETHYL SILOXANE  | 68083-19-2    | 30 - 50 Trade Secret * |
| CRISTOBALITE   | 14464-46-1    | 20 - 30 Trade Secret * |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID                                | 68037-59-2    | 10 - 20 Trade Secret * |
| POLYALKYLENEOXIDE MODIFIED HEPTAMETHYLTRISILOXANE                      | 27306-78-1    | 1 - 10 Trade Secret *  |
| SILANE TREATED SILICA  | 67762-90-7    | 1 - 10 Trade Secret *  |
| ALLYLTRIMETHYLSILANE   | 762-72-1      | < 5 Trade Secret *     |
| FLUORINATED POLYETHER  | Trade Secret* | 1 - 5 Trade Secret *   |
| Oils, mint, Mentha arvensis piperascensis, var. piperascens, Labiatae. | 68917-18-0    | < 0.5 Trade Secret *   |
| QUARTZ SILICA  | 14808-60-7    | < 0.5 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:**

No need for first aid is anticipated.

**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**

| <u>Substance</u>         | <u>Condition</u>  |
|--------------------------|-------------------|
| Carbon monoxide          | During Combustion |
| Carbon dioxide           | During Combustion |
| Irritant Vapors or Gases | 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. 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. 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 eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

**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. Store away from amines.

**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.

| <b>Ingredient</b> | <b>C.A.S. No.</b> | <b>Agency</b> | <b>Limit type</b>  | <b>Additional Comments</b>  |
|-------------------|-------------------|---------------|--|-----------------------------|
| CRISTOBALITE      | 14464-46-1        | ACGIH         | TWA(respirable fraction):0.025 mg/m3   | A2: Suspected human carcin. |
| CRISTOBALITE      | 14464-46-1        | OSHA          | TWA concentration(respirable):0.05 mg/m3(1.2 millions of particles/cu. ft.);TWA:0.05 mg/m3 |                             |
| QUARTZ SILICA     | 14808-60-7        | ACGIH         | TWA(respirable fraction):0.025 mg/m3   | A2: Suspected human carcin. |

|                   |            |      |  |
|-------------------|------------|------|--|
| QUARTZ SILICA     | 14808-60-7 | OSHA | TWA Table Z-1(respirable):0.05 mg/m3;TWA Table Z-3(respirable):0.1 mg/m3 |
| SILICA, AMORPHOUS | 67762-90-7 | OSHA | TWA concentration:0.8 mg/m3;TWA:20 millions of particles/cu. ft.         |

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**

|                                  |                                  |
|----------------------------------|----------------------------------|
| <b>General Physical Form:</b>    | Solid                            |
| <b>Specific Physical Form:</b>   | Paste                            |
| <b>Odor, Color, Grade:</b>       | Smell of mint; white color paste |
| <b>Odor threshold</b>            | <i>No Data Available</i>         |
| <b>pH</b>                        | <i>Not Applicable</i>            |
| <b>Melting point</b>             | <i>Not Applicable</i>            |
| <b>Boiling Point</b>             | <i>Not Applicable</i>            |
| <b>Flash Point</b>               | No flash point                   |
| <b>Evaporation rate</b>          | <i>Not Applicable</i>            |
| <b>Flammability (solid, gas)</b> | Not Classified                   |
| <b>Flammable Limits(LEL)</b>     | <i>Not Applicable</i>            |
| <b>Flammable Limits(UEL)</b>     | <i>Not Applicable</i>            |
| <b>Vapor Pressure</b>            | <i>No Data Available</i>         |
| <b>Vapor Density</b>             | <i>No Data Available</i>         |
| <b>Density</b>                   | 1.1 g/cm3 - 1.3 g/cm3            |
| <b>Specific Gravity</b>          | 1.1 - 1.3 [Ref Std: WATER=1]     |
| <b>Solubility in Water</b>       | Negligible                       |
| <b>Solubility- non-water</b>     | <i>No Data Available</i>         |

|   |                          |
|---|--------------------------|
| Partition coefficient: n-octanol/ water | <i>No Data Available</i> |
| Autoignition temperature                | <i>Not Applicable</i>    |
| Decomposition temperature               | <i>No Data Available</i> |
| Viscosity                               | <i>No Data Available</i> |
| Volatile Organic Compounds              | <i>Not Applicable</i>    |
| Percent volatile                        | <i>Not Applicable</i>    |
| VOC Less H2O & Exempt Solvents          | <i>Not Applicable</i>    |

## 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

Amines  
Strong acids  
Strong bases  
Strong oxidizing agents

### 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.

**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.

| Ingredient              | CAS No.    | Class Description              | Regulation                                  |
|-------------------------|------------|--------------------------------|---|
| SILICA, CRYSTAL AIRRESP | 14464-46-1 | Known human carcinogen         | National Toxicology Program Carcinogens     |
| SILICA, CRYSTAL AIRRESP | 14808-60-7 | Known human carcinogen         | National Toxicology Program Carcinogens     |
| CRISTOBALITE            | 14464-46-1 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| QUARTZ SILICA           | 14808-60-7 | Grp. 1: Carcinogenic to humans | 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**

| 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 |
| VINYL-POLYDIMETHYL SILOXANE                       | Dermal                         | Rabbit                 | LD50 > 15,440 mg/kg                            |
| VINYL-POLYDIMETHYL SILOXANE                       | Ingestion                      | Rat                    | LD50 > 15,440 mg/kg                            |
| CRISTOBALITE                                      | Dermal                         |                        | LD50 estimated to be > 5,000 mg/kg             |
| CRISTOBALITE                                      | Ingestion                      |                        | LD50 estimated to be > 5,000 mg/kg             |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID           | Dermal                         | Rabbit                 | LD50 > 2,000 mg/kg                             |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID           | Ingestion                      | Rat                    | LD50 > 2,000 mg/kg                             |
| SILANE TREATED SILICA                             | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                             |
| SILANE TREATED SILICA                             | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 0.691 mg/l                              |
| SILANE TREATED SILICA                             | Ingestion                      | Rat                    | LD50 > 5,110 mg/kg                             |
| POLYALKYLENEOXIDE MODIFIED HEPTAMETHYLTRISILOXANE | Dermal                         | Rabbit                 | LD50 > 2,000 mg/kg                             |
| POLYALKYLENEOXIDE MODIFIED HEPTAMETHYLTRISILOXANE | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 2 mg/l                                    |
| POLYALKYLENEOXIDE MODIFIED HEPTAMETHYLTRISILOXANE | Ingestion                      | Rat                    | LD50 > 2,000 mg/kg                             |
| ALLYLTRIMETHYLSILANE                              | Dermal                         | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg       |
| ALLYLTRIMETHYLSILANE                              | Ingestion                      | similar compounds      | LD50 estimated to be 2,000 - 5,000 mg/kg       |
| FLUORINATED POLYETHER                             | Dermal                         | Professional           | LD50 estimated to be > 5,000 mg/kg             |

|  |           |                      |                                    |
|--|-----------|----------------------|------------------------------------|
|  |           | nal<br>judgeme<br>nt |                                    |
| FLUORINATED POLYETHER  | Ingestion | Rat                  | LD50 > 1,000 mg/kg                 |
| Oils, mint, Mentha arvensis piperascensis, var. piperascens, Labiatae. | Dermal    | Rabbit               | LD50 > 5,000 mg/kg                 |
| Oils, mint, Mentha arvensis piperascensis, var. piperascens, Labiatae. | Ingestion | Rat                  | LD50 1,240 mg/kg                   |
| QUARTZ SILICA  | Dermal    |                      | LD50 estimated to be > 5,000 mg/kg |
| QUARTZ SILICA  | Ingestion |                      | LD50 estimated to be > 5,000 mg/kg |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name   | Species                            | Value                     |
|--|------------------------------------|---------------------------|
| VINYL-POLYDIMETHYL SILOXANE  | Rabbit                             | No significant irritation |
| CRISTOBALITE   | Profession<br>nal<br>judgeme<br>nt | No significant irritation |
| SILANE TREATED SILICA  | Rabbit                             | No significant irritation |
| POLYALKYLENEOXIDE MODIFIED HEPTAMETHYLTRISILOXANE                      | Rabbit                             | No significant irritation |
| ALLYLTRIMETHYLSILANE   | Not<br>available                   | Irritant                  |
| Oils, mint, Mentha arvensis piperascensis, var. piperascens, Labiatae. | Rabbit                             | Mild irritant             |
| QUARTZ SILICA  | Profession<br>nal<br>judgeme<br>nt | No significant irritation |

### Serious Eye Damage/Irritation

| Name   | Species          | Value                     |
|--|------------------|---------------------------|
| VINYL-POLYDIMETHYL SILOXANE  | Rabbit           | Mild irritant             |
| SILANE TREATED SILICA  | Rabbit           | No significant irritation |
| POLYALKYLENEOXIDE MODIFIED HEPTAMETHYLTRISILOXANE                      | Rabbit           | Severe irritant           |
| ALLYLTRIMETHYLSILANE   | Not<br>available | Severe irritant           |
| Oils, mint, Mentha arvensis piperascensis, var. piperascens, Labiatae. | In vitro<br>data | Severe irritant           |

### Skin Sensitization

| Name   | Species                | Value          |
|--|------------------------|----------------|
| SILANE TREATED SILICA  | Human<br>and<br>animal | Not classified |
| POLYALKYLENEOXIDE MODIFIED HEPTAMETHYLTRISILOXANE                      | Guinea<br>pig          | Not classified |
| Oils, mint, Mentha arvensis piperascensis, var. piperascens, Labiatae. | Guinea<br>pig          | 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  |
|-----------------------|----------|--|
| CRISTOBALITE          | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| CRISTOBALITE          | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| SILANE TREATED SILICA | In Vitro | Not mutagenic  |



|   |          |  |
|---|----------|--|
| POLYALKYLENEOXIDE MODIFIED HEPTAMETHYLTRISILOXANE | In Vitro | Not mutagenic  |
| POLYALKYLENEOXIDE MODIFIED HEPTAMETHYLTRISILOXANE | In vivo  | Not mutagenic  |
| ALLYLTRIMETHYLSILANE                              | In Vitro | Not mutagenic  |
| QUARTZ SILICA                                     | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| QUARTZ SILICA                                     | In vivo  | Some positive data exist, but the data are not sufficient for classification |

### Carcinogenicity

| Name                  | Route         | Species          | Value  |
|-----------------------|---------------|------------------|--|
| CRISTOBALITE          | Inhalation    | Human and animal | Carcinogenic   |
| SILANE TREATED SILICA | Not Specified | Mouse            | Some positive data exist, but the data are not sufficient for classification |
| QUARTZ SILICA         | Inhalation    | Human and animal | Carcinogenic   |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name  | Route     | Value  | Species | Test Result           | Exposure Duration              |
|---|-----------|--|---------|-----------------------|--------------------------------|
| SILANE TREATED SILICA                             | Ingestion | Not classified for female reproduction             | Rat     | NOAEL 509 mg/kg/day   | 1 generation                   |
| SILANE TREATED SILICA                             | Ingestion | Not classified for male reproduction               | Rat     | NOAEL 497 mg/kg/day   | 1 generation                   |
| SILANE TREATED SILICA                             | Ingestion | Not classified for development                     | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis           |
| POLYALKYLENEOXIDE MODIFIED HEPTAMETHYLTRISILOXANE | Ingestion | Not classified for reproduction and/or development | Rat     | NOAEL 450 mg/kg/day   | prematuring & during gestation |
| FLUORINATED POLYETHER                             | Ingestion | Not classified for reproduction and/or development | Rat     | NOAEL 1,000 mg/kg/day | prematuring into lactation     |
| FLUORINATED POLYETHER                             | Ingestion | Not classified for female reproduction             | Rat     | NOAEL 1,000 mg/kg/day | prematuring into lactation     |
| FLUORINATED POLYETHER                             | Ingestion | Not classified for male reproduction               | Rat     | NOAEL 1,000 mg/kg/day | prematuring into lactation     |

### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

| Name                 | Route      | Target Organ(s)        | Value                            | Species       | Test Result         | Exposure Duration |
|----------------------|------------|------------------------|----------------------------------|---------------|---------------------|-------------------|
| ALLYLTRIMETHYLSILANE | Inhalation | respiratory irritation | May cause respiratory irritation | Not available | NOAEL Not available |                   |

#### Specific Target Organ Toxicity - repeated exposure

| Name                  | Route      | Target Organ(s)   | Value  | Species | Test Result           | Exposure Duration     |
|-----------------------|------------|---|--|---------|-----------------------|-----------------------|
| CRISTOBALITE          | Inhalation | silicosis   | Causes damage to organs through prolonged or repeated exposure | Human   | NOAEL Not available   | occupational exposure |
| SILANE TREATED SILICA | Inhalation | respiratory system   silicosis  | Not classified   | Human   | NOAEL Not available   | occupational exposure |
| FLUORINATED POLYETHER | Ingestion  | auditory system   heart   endocrine system   hematopoietic system   liver   immune system   muscles   nervous system   eyes | Not classified   | Rat     | NOAEL 1,000 mg/kg/day | 28 days               |

|               |            |           |  |       |                     |                       |
|---------------|------------|-----------|--|-------|---------------------|-----------------------|
| QUARTZ SILICA | Inhalation | silicosis | Causes damage to organs through prolonged or repeated exposure | 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.

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration 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.

**EPCRA 311/312 Hazard Classifications:**

**Physical Hazards**

Not applicable

**Health Hazards**

Not applicable

**Additional TSCA Information**

| <u>Components</u>     | <u>CAS No</u> | <u>Additional Information</u>   |
|-----------------------|---------------|---|
| FLUORINATED POLYETHER | Trade Secret  | Manufacturing of this substance is strictly prohibited of an average molecular weight (MW) less than 1000 daltons, or |

|  |  |
|--|--|
|  | more than 5 percent oligomeric material less than 500 daltons, or 10 percent oligomeric material less than 1000 daltons. |
|--|--|

## 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.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

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.

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 31-4879-8 | <b>Version Number:</b>  | 4.00     |
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## Safety Data Sheet

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|------------------------|-----------|-------------------------|----------|
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| <b>Issue Date:</b>     | 11/07/18  | <b>Supersedes Date:</b> | 07/20/18 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ ESPE™IMPRINT™ 4 REGULAR CATALYST

#### Product Identification Numbers

LE-F100-1310-0

#### 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

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.

### SECTION 3: Composition/information on ingredients

| Ingredient                 | C.A.S. No. | % by Wt                |
|----------------------------|------------|------------------------|
| VINYL-POLYDIMETHYLSILOXANE | 68083-19-2 | 40 - 60 Trade Secret * |
| CRISTOBALITE               | 14464-46-1 | 25 - 45 Trade Secret * |
| POLY(DIMETHYLSILOXANE)     | 63148-62-9 | 1 - 10 Trade Secret *  |
| SILANE TREATED SILICA      | 67762-90-7 | 1 - 10 Trade Secret *  |
| C.I. PIGMENT YELLOW 109    | 5045-40-9  | < 2 Trade Secret *     |
| C.I. PIGMENT BLUE 28       | 1345-16-0  | < 1 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

Irritant Vapors or Gases

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**

Ventilate the area with fresh air. 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 eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

**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. Store away from amines.

**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          |
|-----------------------------|------------|--------|---|------------------------------|
| Cobalt, inorganic compounds | 1345-16-0  | ACGIH  | TWA(as Co):0.02 mg/m <sup>3</sup>   | A3: Confirmed animal carcin. |
| CRISTOBALITE                | 14464-46-1 | ACGIH  | TWA(respirable fraction):0.025 mg/m <sup>3</sup>  | A2: Suspected human carcin.  |
| CRISTOBALITE                | 14464-46-1 | OSHA   | TWA concentration(respirable):0.05 mg/m <sup>3</sup> (1.2 millions of particles/cu. ft.);TWA:0.05 mg/m <sup>3</sup> |                              |
| SILICA, AMORPHOUS           | 67762-90-7 | OSHA   | TWA concentration:0.8 mg/m <sup>3</sup> ;TWA:20 millions of particles/cu. ft.                                       |                              |

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

|  |   |
|--|---|
| <b>General Physical Form:</b>                        | Solid   |
| <b>Specific Physical Form:</b>                       | Paste   |
| <b>Odor, Color, Grade:</b>                           | Slight characteristic odor; white colored paste |
| <b>Odor threshold</b>                                | <i>No Data Available</i>                        |
| <b>pH</b>  | <i>Not Applicable</i>                           |
| <b>Melting point</b>                                 | <i>Not Applicable</i>                           |
| <b>Boiling Point</b>                                 | <i>Not Applicable</i>                           |
| <b>Flash Point</b>                                   | No flash point                                  |
| <b>Evaporation rate</b>                              | <i>Not Applicable</i>                           |
| <b>Flammability (solid, gas)</b>                     | Not Classified                                  |
| <b>Flammable Limits(LEL)</b>                         | <i>Not Applicable</i>                           |
| <b>Flammable Limits(UEL)</b>                         | <i>Not Applicable</i>                           |
| <b>Vapor Pressure</b>                                | <i>No Data Available</i>                        |
| <b>Vapor Density</b>                                 | <i>No Data Available</i>                        |
| <b>Density</b>                                       | 1.2 g/cm <sup>3</sup> - 1.4 g/cm <sup>3</sup>   |
| <b>Specific Gravity</b>                              | 1.2 - 1.4 [Ref Std: WATER=1]                    |
| <b>Solubility in Water</b>                           | Negligible                                      |
| <b>Solubility- non-water</b>                         | <i>No Data Available</i>                        |
| <b>Partition coefficient: n-octanol/ water</b>       | <i>No Data Available</i>                        |
| <b>Autoignition temperature</b>                      | <i>Not Applicable</i>                           |
| <b>Decomposition temperature</b>                     | <i>No Data Available</i>                        |
| <b>Viscosity</b>                                     | <i>No Data Available</i>                        |
| <b>Volatile Organic Compounds</b>                    | <i>Not Applicable</i>                           |
| <b>Percent volatile</b>                              | <i>Not Applicable</i>                           |
| <b>VOC Less H<sub>2</sub>O &amp; Exempt Solvents</b> | <i>Not Applicable</i>                           |

## 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**

Amines

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:**

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.

| Ingredient                                     | CAS No.    | Class Description              | Regulation                                  |
|--|------------|--------------------------------|---|
| SILICA, CRYST AIRRESP                          | 14464-46-1 | Known human carcinogen         | National Toxicology Program Carcinogens     |
| Generic: Cobalt compounds                      | 1345-16-0  | Anticipated human carcinogen   | National Toxicology Program Carcinogens     |
| Generic: Cobalt and inorganic cobalt compounds | 1345-16-0  | Grp. 2B: Possible human carc.  | International Agency for Research on Cancer |
| Generic: Cobalt and inorganic cobalt compounds | 1345-16-0  | Anticipated human carcinogen   | National Toxicology Program Carcinogens     |
| CRISTOBALITE                                   | 14464-46-1 | Grp. 1: Carcinogenic to humans | 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**

| Name                       | Route                          | Species | Value  |
|----------------------------|--------------------------------|---------|--|
| Overall product            | Ingestion                      |         | No data available; calculated ATE >5,000 mg/kg |
| VINYL-POLYDIMETHYLSILOXANE | Dermal                         | Rabbit  | LD50 > 15,440 mg/kg                            |
| VINYL-POLYDIMETHYLSILOXANE | Ingestion                      | Rat     | LD50 > 15,440 mg/kg                            |
| CRISTOBALITE               | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg             |
| CRISTOBALITE               | Ingestion                      |         | LD50 estimated to be > 5,000 mg/kg             |
| SILANE TREATED SILICA      | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| SILANE TREATED SILICA      | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 0.691 mg/l                              |
| SILANE TREATED SILICA      | Ingestion                      | Rat     | LD50 > 5,110 mg/kg                             |
| POLY(DIMETHYLSILOXANE)     | Dermal                         | Rabbit  | LD50 > 19,400 mg/kg                            |
| POLY(DIMETHYLSILOXANE)     | Ingestion                      | Rat     | LD50 > 17,000 mg/kg                            |
| C.I. PIGMENT BLUE 28       | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg             |
| C.I. PIGMENT BLUE 28       | Ingestion                      | Rat     | LD50 > 10,000 mg/kg                            |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                       | Species               | Value                     |
|----------------------------|-----------------------|---------------------------|
| VINYL-POLYDIMETHYLSILOXANE | Rabbit                | No significant irritation |
| CRISTOBALITE               | Professional judgment | No significant irritation |
| SILANE TREATED SILICA      | Rabbit                | No significant irritation |
| POLY(DIMETHYLSILOXANE)     | Rabbit                | No significant irritation |

**Serious Eye Damage/Irritation**

| Name                       | Species | Value                     |
|----------------------------|---------|---------------------------|
| VINYL-POLYDIMETHYLSILOXANE | Rabbit  | Mild irritant             |
| SILANE TREATED SILICA      | Rabbit  | No significant irritation |
| POLY(DIMETHYLSILOXANE)     | Rabbit  | No significant irritation |

**Skin Sensitization**

| Name | Species | Value |
|------|---------|-------|
|------|---------|-------|

|                       |                  |                |
|-----------------------|------------------|----------------|
| SILANE TREATED SILICA | Human and animal | 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  |
|-----------------------|----------|--|
| CRISTOBALITE          | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| CRISTOBALITE          | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| SILANE TREATED SILICA | In Vitro | Not mutagenic  |

**Carcinogenicity**

| Name                  | Route         | Species          | Value  |
|-----------------------|---------------|------------------|--|
| CRISTOBALITE          | Inhalation    | Human and animal | Carcinogenic   |
| SILANE TREATED SILICA | Not Specified | Mouse            | 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    |
|-----------------------|-----------|--|---------|-----------------------|----------------------|
| SILANE TREATED SILICA | Ingestion | Not classified for female reproduction | Rat     | NOAEL 509 mg/kg/day   | 1 generation         |
| SILANE TREATED SILICA | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 497 mg/kg/day   | 1 generation         |
| SILANE TREATED SILICA | Ingestion | Not classified for development         | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis |

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

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

**Specific Target Organ Toxicity - repeated exposure**

| Name                  | Route      | Target Organ(s)                | Value  | Species | Test Result         | Exposure Duration     |
|-----------------------|------------|--------------------------------|--|---------|---------------------|-----------------------|
| CRISTOBALITE          | Inhalation | silicosis                      | Causes damage to organs through prolonged or repeated exposure | Human   | NOAEL Not available | occupational exposure |
| SILANE TREATED SILICA | Inhalation | respiratory system   silicosis | 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. 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.

### EPCRA 311/312 Hazard Classifications:

#### Physical Hazards

Not applicable

#### Health Hazards

Not applicable

### Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

| <u>Ingredient</u>                                  | <u>C.A.S. No</u> | <u>% by Wt</u> |
|--|------------------|----------------|
| C.I. PIGMENT BLUE 28 (Cobalt, inorganic compounds) | 1345-16-0        | < 1            |

### 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.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

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.

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 31-4882-2 | <b>Version Number:</b>  | 4.01     |
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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 35-4552-2 | <b>Version Number:</b>  | 1.06     |
| <b>Issue Date:</b>     | 07/08/19  | <b>Supersedes Date:</b> | 12/29/17 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ VPS Tray Adhesive - New Formulation

#### Product Identification Numbers

LE-F100-1876-8, 70-2011-4438-6, 70-2011-4441-0, UU-0103-3578-2  
7100059326, 7100059324, 4100040495

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

##### Recommended use

Dental Product, Tray Adhesive

##### 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

Flammable Liquid: Category 2.

Specific Target Organ Toxicity (single exposure): Category 3.

#### 2.2. Label elements

##### Signal word

Danger

**Symbols**

Flame | Exclamation mark |

**Pictograms**



**Hazard Statements**

Highly flammable liquid and vapor.

May cause drowsiness or dizziness.

**Precautionary Statements**

**Prevention:**

- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Keep container tightly closed.
- Use explosion-proof electrical/ventilating/lighting equipment.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only in a well-ventilated area.
- Wear protective gloves and eye/face protection.

**Response:**

- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Call a POISON CENTER or doctor/physician if you feel unwell.
- In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

**Storage:**

- Store in a well-ventilated place. Keep cool.
- Keep container tightly closed.

**Disposal:**

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

52% of the mixture consists of ingredients of unknown acute oral toxicity.

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

| Ingredient   | C.A.S. No. | % by Wt                |
|--|------------|------------------------|
| ETHYL ACETATE  | 141-78-6   | 40 - 60 Trade Secret * |
| HYDROXY-TERMINATED DIMETHYLSILOXANE, REACTION PRODUCTS WITH CHLOROTRIMETHYLSILANE, HYDROCHLORIC ACID, ISOPROPYL ALCOHOL, AND SODIUM SILICATE | 68440-70-0 | 40 - 60 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. Do not induce vomiting. Get immediate 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 flammable liquids such as dry chemical or carbon dioxide to extinguish.

### 5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

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

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. 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. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. 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

Contain spill. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container

approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray. 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.

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

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. 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 |
|---------------|------------|--------|-------------------------|---------------------|
| ETHYL ACETATE | 141-78-6   | ACGIH  | TWA:400 ppm             |                     |
| ETHYL ACETATE | 141-78-6   | OSHA   | TWA:1400 mg/m3(400 ppm) |                     |

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

|  |  |
|--|--|
| <b>General Physical Form:</b>                  | Liquid   |
| <b>Specific Physical Form:</b>                 | Viscous  |
| <b>Odor, Color, Grade:</b>                     | Red liquid with characteristic organic solvent odor. |
| <b>Odor threshold</b>                          | <i>No Data Available</i>                             |
| <b>pH</b>                                      | <i>No Data Available</i>                             |
| <b>Melting point</b>                           | <i>No Data Available</i>                             |
| <b>Boiling Point</b>                           | 169 °F   |
| <b>Flash Point</b>                             | 25 °F [ <i>Test Method: Closed Cup</i> ]             |
| <b>Evaporation rate</b>                        | <i>No Data Available</i>                             |
| <b>Flammability (solid, gas)</b>               | Not Applicable                                       |
| <b>Flammable Limits(LEL)</b>                   | 1.2 %  |
| <b>Flammable Limits(UEL)</b>                   | 11.5 %   |
| <b>Vapor Pressure</b>                          | 131 mmHg   |
| <b>Vapor Density</b>                           | > 1 [ <i>Ref Std: AIR=1</i> ]                        |
| <b>Density</b>                                 | Approximately 0.9 g/cm <sup>3</sup>                  |
| <b>Specific Gravity</b>                        | > 0.9 [ <i>Ref Std: WATER=1</i> ]                    |
| <b>Solubility in Water</b>                     | Nil  |
| <b>Solubility- non-water</b>                   | <i>No Data Available</i>                             |
| <b>Partition coefficient: n-octanol/ water</b> | <i>No Data Available</i>                             |
| <b>Autoignition temperature</b>                | <i>No Data Available</i>                             |
| <b>Decomposition temperature</b>               | <i>No Data Available</i>                             |
| <b>Viscosity</b>                               | Approximately 0.25 Pa-s                              |
| <b>Molecular weight</b>                        | <i>No Data Available</i>                             |
| <b>Percent volatile</b>                        | <i>No Data Available</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

Sparks and/or flames  
Heat

### 10.5. Incompatible materials

Strong acids  
Strong oxidizing agents

No Data Available

### 10.6. Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u>            |
|------------------|-----------------------------|
| Carbon monoxide  | Oxidation, heat or reaction |
| Carbon dioxide   | Oxidation, heat or reaction |

## 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.

### 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:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause additional health effects (see below).

#### 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.

May cause additional health effects (see below).

#### Additional Health Effects:

#### Single exposure may cause target organ effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

#### 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 >5,000 mg/kg |
| ETHYL ACETATE   | Dermal                     | Rabbit  | LD50 > 18,000 mg/kg                            |
| ETHYL ACETATE   | Inhalation-Vapor (4 hours) | Rat     | LC50 70.5 mg/l                                 |
| ETHYL ACETATE   | Ingestion                  | Rat     | LD50 5,620 mg/kg                               |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name          | Species | Value              |
|---------------|---------|--------------------|
| ETHYL ACETATE | Rabbit  | Minimal irritation |

**Serious Eye Damage/Irritation**

| Name          | Species | Value         |
|---------------|---------|---------------|
| ETHYL ACETATE | Rabbit  | Mild irritant |

**Skin Sensitization**

| Name          | Species    | Value          |
|---------------|------------|----------------|
| ETHYL ACETATE | Guinea pig | 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         |
|---------------|----------|---------------|
| ETHYL ACETATE | In Vitro | Not mutagenic |
| ETHYL ACETATE | In vivo  | Not mutagenic |

**Carcinogenicity**

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

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

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

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

| Name          | Route      | Target Organ(s)                   | Value  | Species | Test Result         | Exposure Duration |
|---------------|------------|-----------------------------------|--|---------|---------------------|-------------------|
| ETHYL ACETATE | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human   | NOAEL Not available |                   |
| ETHYL ACETATE | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human   | NOAEL Not available |                   |
| ETHYL ACETATE | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Human   | NOAEL Not available |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name          | Route      | Target Organ(s)                                      | Value          | Species | Test Result           | Exposure Duration |
|---------------|------------|--|----------------|---------|-----------------------|-------------------|
| ETHYL ACETATE | Inhalation | endocrine system   liver   nervous system            | Not classified | Rat     | NOAEL 0.043 mg/l      | 90 days           |
| ETHYL ACETATE | Inhalation | hematopoietic system                                 | Not classified | Rabbit  | LOAEL 16 mg/l         | 40 days           |
| ETHYL ACETATE | Ingestion  | hematopoietic system   liver   kidney and/or bladder | Not classified | Rat     | NOAEL 3,600 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.

Incinerate in a permitted waste incineration facility.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

## 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

Flammable (gases, aerosols, liquids, or solids)

##### Health Hazards

Specific target organ toxicity (single or repeated exposure)

### 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.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

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: 3 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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