



## Safety Data Sheet

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|                        |           |                         |          |
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### Product identifier

3M™ ESPE™ IMPRINT™ 4 PENTA™ SUPER QUICK HEAVY Trial Kit

### ID Number(s):

70-2011-4153-1

### 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>     | 3M ESPE Dental Products                 |
| <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:**

31-4864-0, 31-6679-0, 31-6686-5, 31-4875-6

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

#### 1.1. Product identifier

3M™ ESPE™IMPRINT™ 4 PENTA™ SUPER QUICK HEAVY BASE

#### Product Identification Numbers

LE-F100-1340-1

#### 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

Skin Sensitizer: Category 1.

#### 2.2. Label elements

##### Signal word

Warning

##### Symbols

Exclamation mark |

**Pictograms****Hazard Statements**

May cause an allergic skin reaction.

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

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

**Response:**

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

**Disposal:**

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

**2.3. Hazards not otherwise classified**

None.

1% of the mixture consists of ingredients of unknown acute oral toxicity.  
1% of the mixture consists of ingredients of unknown acute dermal toxicity.

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

| Ingredient   | C.A.S. No. | % by Wt                |
|--|------------|------------------------|
| SILANE TREATED QUARTZ  | None       | 50 - 60 Trade Secret * |
| VINYL-POLYDIMETHYL SILOXANE  | 68083-19-2 | 20 - 30 Trade Secret * |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID                                | 68037-59-2 | 5 - 15 Trade Secret *  |
| SILANE TREATED SILICA  | 67762-90-7 | 1 - 10 Trade Secret *  |
| ALLYTRIMETHYLSILANE  | 762-72-1   | < 2 Trade Secret *     |
| ALUMINUM OXIDE   | 1344-28-1  | < 2 Trade Secret *     |
| POLYETHYLENE GLYCOL, SILOXANE TETRAMINATED                             | 27306-78-1 | < 2 Trade Secret *     |
| TITANIUM DIOXIDE   | 13463-67-7 | < 1.0 Trade Secret *   |
| OILS, MINT, MENTHA ARVENSIS PIPERASCENSIS, VAR. PIPERASCENS, 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:**

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

**Skin Contact:**

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

**Eye Contact:**

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

**If Swallowed:**

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

**4.2. Most important symptoms and effects, both acute and delayed**

See Section 11.1. Information on toxicological effects.

**4.3. Indication of any immediate medical attention and special treatment required**

Not applicable

**SECTION 5: Fire-fighting measures**

**5.1. Suitable extinguishing media**

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.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove.

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

Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents. 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            |
|-------------------------------|------------|--------|---|--------------------------------|
| ALUMINUM OXIDE                | 1344-28-1  | CMRG   | TWA:1 fiber/cc  |                                |
| ALUMINUM OXIDE                | 1344-28-1  | OSHA   | TWA(as total dust):15 mg/m <sup>3</sup> ;TWA(respirable fraction):5 mg/m <sup>3</sup> |                                |
| Aluminum, insoluble compounds | 1344-28-1  | ACGIH  | TWA(respirable fraction):1 mg/m <sup>3</sup>  | A4: Not class. as human carcin |
| TITANIUM DIOXIDE              | 13463-67-7 | ACGIH  | TWA:10 mg/m <sup>3</sup>  | A4: Not class. as human carcin |
| TITANIUM DIOXIDE              | 13463-67-7 | CMRG   | TWA(as respirable dust):5 mg/m <sup>3</sup>   |                                |
| TITANIUM DIOXIDE              | 13463-67-7 | OSHA   | TWA(as total dust):15 mg/m <sup>3</sup>   |                                |
| SILANE TREATED SILICA         | 67762-90-7 | CMRG   | CEIL:5 mg/m <sup>3</sup>  |                                |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

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

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

**8.2. Exposure controls****8.2.1. Engineering controls**

Use in a well-ventilated area.

**8.2.2. Personal protective equipment (PPE)****Eye/face protection**

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

Safety Glasses with side shields

**Skin/hand protection**

See Section 7.1 for additional information on skin protection.

**Respiratory protection**

Respiratory protection is not 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 minty odor; yellow color paste         |
| <b>Odor threshold</b>                                | <i>No Data Available</i>                      |
| <b>pH</b>  | <i>No Data Available</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>No Data Available</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>                                       | 1.5 g/cm <sup>3</sup> - 1.6 g/cm <sup>3</sup> |
| <b>Specific Gravity</b>                              | 1.5 - 1.6 [ <i>Ref Std: WATER=1</i> ]         |
| <b>Solubility in Water</b>                           | Negligible                                    |
| <b>Solubility- non-water</b>                         | <i>No Data Available</i>                      |
| <b>Partition coefficient: n-octanol/ water</b>       | <i>Not Applicable</i>                         |
| <b>Autoignition temperature</b>                      | <i>No Data Available</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**

None known.

**Condition**

Refer to section 5.2 for hazardous decomposition products during combustion.

**SECTION 11: Toxicological information**

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

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

The information below represents toxicological information associated with the individual components of the uncured product. Once properly mixed and/or cured, the product is safe for its intended use.

**11.1. Information on Toxicological effects****Signs and Symptoms of Exposure**

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

**Inhalation:**

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

**Skin Contact:**

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

**Eye Contact:**

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

**Ingestion:**

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

**Additional Health Effects:****Carcinogenicity:**

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

Contains a chemical or chemicals which can cause cancer.

| <b><u>Ingredient</u></b> | <b><u>CAS No.</u></b> | <b><u>Class Description</u></b> | <b><u>Regulation</u></b>                    |
|--------------------------|-----------------------|---------------------------------|---|
| TITANIUM DIOXIDE         | 13463-67-7            | Grp. 2B: Possible human carc.   | International Agency for Research on Cancer |

**Toxicological Data**

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

**Acute Toxicity**

| <b><u>Name</u></b> | <b><u>Route</u></b> | <b><u>Species</u></b> | <b><u>Value</u></b>                             |
|--------------------|---------------------|-----------------------|---|
| Overall product    | 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                             |
| 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 TETRMINATED                              | Dermal                         | Rabbit                 | LD50 > 2,000 mg/kg                              |
| POLYETHYLENE GLYCOL, SILOXANE TETRMINATED                              | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 2 mg/l                                     |
| POLYETHYLENE GLYCOL, SILOXANE TETRMINATED                              | Ingestion                      | Rat                    | LD50 > 2,000 mg/kg                              |
| ALUMINUM OXIDE   | Dermal                         |                        | LD50 estimated to be > 5,000 mg/kg              |
| ALUMINUM OXIDE   | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 2.3 mg/l                                 |
| ALUMINUM OXIDE   | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                              |
| ALLYTRIMETHYLSILANE  | Dermal                         | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg        |
| ALLYTRIMETHYLSILANE  | Ingestion                      | similar compounds      | LD50 estimated to be 2,000 - 5,000 mg/kg        |
| TITANIUM DIOXIDE   | Dermal                         | Rabbit                 | LD50 > 10,000 mg/kg                             |
| TITANIUM DIOXIDE   | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 6.82 mg/l                                |
| TITANIUM DIOXIDE   | Ingestion                      | Rat                    | LD50 > 10,000 mg/kg                             |
| 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                     |
|--|---------|---------------------------|
| VINYL-POLYDIMETHYL SILOXANE  | Rabbit  | No significant irritation |
| SILANE TREATED SILICA  | Rabbit  | No significant irritation |
| POLYETHYLENE GLYCOL, SILOXANE TETRMINATED                              | Rabbit  | No significant irritation |
| ALUMINUM OXIDE   | Rabbit  | No significant irritation |
| TITANIUM DIOXIDE   | Rabbit  | 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             |
| SILANE TREATED SILICA  | Rabbit        | No significant irritation |
| POLYETHYLENE GLYCOL, SILOXANE TETRMINATED                              | Rabbit        | Severe irritant           |
| ALUMINUM OXIDE   | Rabbit        | No significant irritation |
| TITANIUM DIOXIDE   | Rabbit        | No significant irritation |
| OILS, MINT, MENTHA ARVENSIS PIPERASCENSIS, VAR. PIPERASCENS, LABIATAE. | In vitro data | Severe irritant           |

**Skin Sensitization**

| Name                  | Species   | Value           |
|-----------------------|-----------|-----------------|
| SILANE TREATED SILICA | Human and | Not sensitizing |

|  |                  |                 |
|--|------------------|-----------------|
|  | animal           |                 |
| POLYETHYLENE GLYCOL, SILOXANE TETRMINATED                              | Guinea pig       | Not sensitizing |
| TITANIUM DIOXIDE   | Human and animal | Not sensitizing |
| 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         |
|---|----------|---------------|
| SILANE TREATED SILICA                     | In Vitro | Not mutagenic |
| POLYETHYLENE GLYCOL, SILOXANE TETRMINATED | In Vitro | Not mutagenic |
| POLYETHYLENE GLYCOL, SILOXANE TETRMINATED | In vivo  | Not mutagenic |
| ALUMINUM OXIDE                            | In Vitro | Not mutagenic |
| TITANIUM DIOXIDE                          | In Vitro | Not mutagenic |
| TITANIUM DIOXIDE                          | In vivo  | Not mutagenic |

**Carcinogenicity**

| Name                  | Route         | Species                 | Value  |
|-----------------------|---------------|-------------------------|--|
| SILANE TREATED SILICA | Not Specified | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| ALUMINUM OXIDE        | Inhalation    | Rat                     | Not carcinogenic   |
| TITANIUM DIOXIDE      | Ingestion     | Multiple animal species | Not carcinogenic   |
| TITANIUM DIOXIDE      | Inhalation    | Rat                     | Carcinogenic   |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name                                      | Route     | Value   | Species | Test Result           | Exposure Duration            |
|---|-----------|---|---------|-----------------------|------------------------------|
| SILANE TREATED SILICA                     | Ingestion | Not toxic to female reproduction  | Rat     | NOAEL 509 mg/kg/day   | 1 generation                 |
| SILANE TREATED SILICA                     | Ingestion | Not toxic to male reproduction  | Rat     | NOAEL 497 mg/kg/day   | 1 generation                 |
| SILANE TREATED SILICA                     | Ingestion | Not toxic to development  | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis         |
| POLYETHYLENE GLYCOL, SILOXANE TETRMINATED | Ingestion | Some positive reproductive/developmental data exist, but the data are not sufficient for classification | Rat     | NOAEL 450 mg/kg/day   | premating & during gestation |

**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     |
|-----------------------|------------|-------------------------------------|--|---------|---------------------|-----------------------|
| SILANE TREATED SILICA | Inhalation | respiratory system   silicosis      | All data are negative  | Human   | NOAEL Not available | occupational exposure |
| ALUMINUM OXIDE        | Inhalation | pneumoconiosis   pulmonary fibrosis | Some positive data exist, but the data are not sufficient for classification | Human   | NOAEL Not available | occupational exposure |
| TITANIUM DIOXIDE      | Inhalation | respiratory system                  | Some positive data exist, but the  | Rat     | LOAEL 0.01          | 2 years               |

|                  |            |                    |  |       |                     |                       |
|------------------|------------|--------------------|--|-------|---------------------|-----------------------|
|                  |            |                    | data are not sufficient for classification |       | mg/l                |                       |
| TITANIUM DIOXIDE | Inhalation | pulmonary fibrosis | All data are negative                      | Human | NOAEL Not available | occupational exposure |

**Aspiration Hazard**

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

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

**SECTION 12: Ecological information****Ecotoxicological information**

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

**Chemical fate information**

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

**SECTION 13: Disposal considerations****13.1. Disposal methods**

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

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. If no other disposal options are available, waste product that has been completely cured or polymerized may be placed in a landfill properly designed for industrial waste.

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

**SECTION 14: Transport Information**

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

**SECTION 15: Regulatory information****15.1. US Federal Regulations**

Contact 3M for more information.

**311/312 Hazard Categories:**

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

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

**Ingredient**

ALUMINUM OXIDE

**C.A.S. No**

1344-28-1

**% by Wt**

Trade Secret &lt; 2

**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: 2 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.

|                        |           |                         |          |
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## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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| <b>Issue Date:</b>     | 02/07/17  | <b>Supersedes Date:</b> | 02/25/16 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ ESPE™ IMPRINT™ 4 SUPER QUICK LIGHT CATALYST

#### Product Identification Numbers

LE-F100-1309-7

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

##### Recommended use

Dental Product, Impression Material

##### Restrictions on use

For use only by dental professionals.

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Oral Care Solutions Division            |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard identification

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

#### 2.1. Hazard classification

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

#### 2.2. Label elements

##### Signal word

Not applicable.

##### Symbols

Not applicable.

**Pictograms**

Not applicable.

**2.3. Hazards not otherwise classified**

None.

### SECTION 3: Composition/information on ingredients

| Ingredient                 | C.A.S. No. | % by Wt                |
|----------------------------|------------|------------------------|
| VINYL-POLYDIMETHYLSILOXANE | 68083-19-2 | 40 - 60 Trade Secret * |
| CRISTOBALITE               | 14464-46-1 | 20 - 40 Trade Secret * |
| FUSED SILICA               | 60676-86-0 | 5 - 20 Trade Secret *  |
| POLY(DIMETHYLSILOXANE)     | 63148-62-9 | 1 - 10 Trade Secret *  |
| SILANE TREATED SILICA      | 67762-90-7 | 1 - 10 Trade Secret *  |
| TRIDYMITE                  | 15468-32-3 | < 5 Trade Secret *     |
| C.I. PIGMENT BLUE 28       | 1345-16-0  | < 0.5 Trade Secret *   |
| QUARTZ SILICA              | 14808-60-7 | < 0.3 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**

No special protective actions for fire-fighters are anticipated.

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

Ventilate the area with fresh air. 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.

**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>   |
|-----------------------------|-------------------|---------------|---|------------------------------|
| 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> |                              |
| QUARTZ SILICA               | 14808-60-7        | ACGIH         | TWA(respirable fraction):0.025 mg/m <sup>3</sup>  | 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                   |  |
| TRIDYMITE     | 15468-32-3 | OSHA | TWA concentration(respirable):0.05 mg/m3(1.2 millions of particles/cu. ft.);TWA:0.05 mg/m3 |  |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

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

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

## 8.2. Exposure controls

### 8.2.1. Engineering controls

Use in a well-ventilated area.

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

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

Safety Glasses with side shields

#### Skin/hand protection

See Section 7.1 for additional information on skin protection.

#### Respiratory protection

None required.

## SECTION 9: Physical and chemical properties

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

|                                  |   |
|----------------------------------|---|
| <b>General Physical Form:</b>    | Solid   |
| <b>Specific Physical Form:</b>   | Paste   |
| <b>Odor, Color, Grade:</b>       | slight characteristic odor, white color paste |
| <b>Odor threshold</b>            | <i>No Data Available</i>                      |
| <b>pH</b>                        | <i>No Data Available</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>No Data Available</i>                      |
| <b>Flammability (solid, gas)</b> | Not Classified                                |
| <b>Flammable Limits(LEL)</b>     | <i>No Data Available</i>                      |
| <b>Flammable Limits(UEL)</b>     | <i>No Data Available</i>                      |
| <b>Vapor Pressure</b>            | <i>No Data Available</i>                      |
| <b>Vapor Density</b>             | <i>No Data Available</i>                      |
| <b>Density</b>                   | 1.2 - 1.4 g/m3                                |
| <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>Not Applicable</i>    |
| <b>Autoignition temperature</b>                | <i>No Data Available</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 H2O &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

| <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, 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     |
| SILICA, CRYSTAL AIRRESP                        | 15468-32-3 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| SILICA, CRYSTAL AIRRESP                        | 15468-32-3 | Known 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 |
| 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            | 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              |
| FUSED SILICA               | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                              |
| FUSED SILICA               | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 0.691 mg/l                               |
| FUSED SILICA               | Ingestion                      | Rat     | LD50 > 5,110 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                             |
| TRIDYMITE                  | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg              |
| TRIDYMITE                  | Ingestion                      |         | LD50 estimated to be > 5,000 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                |
| 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-POLYDIMETHYLSILOXANE | Rabbit                 | No significant irritation |
| CRISTOBALITE               | Professional judgement | No significant irritation |
| FUSED SILICA               | Rabbit                 | No significant irritation |
| SILANE TREATED SILICA      | Rabbit                 | No significant irritation |
| POLY(DIMETHYLSILOXANE)     | Rabbit                 | No significant irritation |
| TRIDYMITE                  | Professional judgement | No significant irritation |
| QUARTZ SILICA              | Professional judgement | No significant irritation |

#### Serious Eye Damage/Irritation

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

#### Skin Sensitization

| Name                  | Species          | Value           |
|-----------------------|------------------|-----------------|
| FUSED SILICA          | Human and animal | Not sensitizing |
| SILANE TREATED SILICA | Human and animal | Not sensitizing |

#### Respiratory Sensitization

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

#### Germ Cell Mutagenicity

| Name                  | Route    | Value  |
|-----------------------|----------|--|
| 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 |
| FUSED SILICA          | In Vitro | Not mutagenic  |
| SILANE TREATED SILICA | In Vitro | Not mutagenic  |
| TRIDYMITE             | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| TRIDYMITE             | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| 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   |
| FUSED SILICA          | Not Specified | Mouse            | Some positive data exist, but the data are not sufficient for classification |
| SILANE TREATED SILICA | Not Specified | Mouse            | Some positive data exist, but the data are not sufficient for classification |
| TRIDYMITE             | Inhalation    | Human and animal | Carcinogenic   |
| QUARTZ SILICA         | Inhalation    | Human and animal | Carcinogenic   |

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

| Name                  | Route      | Value                            | Species | Test Result           | Exposure Duration    |
|-----------------------|------------|----------------------------------|---------|-----------------------|----------------------|
| FUSED SILICA          | Ingestion  | Not toxic to female reproduction | Rat     | NOAEL 509 mg/kg/day   | 1 generation         |
| FUSED SILICA          | Inhalation | Not toxic to male reproduction   | Rat     | NOAEL 497 mg/kg/day   | 1 generation         |
| FUSED SILICA          | Ingestion  | Not toxic to development         | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis |
| SILANE TREATED SILICA | Ingestion  | Not toxic to female reproduction | Rat     | NOAEL 509 mg/kg/day   | 1 generation         |
| SILANE TREATED SILICA | Ingestion  | Not toxic to male reproduction   | Rat     | NOAEL 497 mg/kg/day   | 1 generation         |
| SILANE TREATED SILICA | Ingestion  | Not toxic to 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 |
| FUSED SILICA          | Inhalation | respiratory system   silicosis | All data are negative  | Human   | NOAEL Not available | occupational exposure |
| SILANE TREATED SILICA | Inhalation | respiratory system   silicosis | All data are negative  | Human   | NOAEL Not available | occupational exposure |
| TRIDYMITE             | Inhalation | silicosis                      | Causes damage to organs through prolonged or repeated exposure | 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.

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.

**311/312 Hazard Categories:**

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

**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        | < 0.5          |

**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.

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

#### 1.1. Product identifier

3M™ ESPE™ IMPRINT™ 4 PENTA™ SUPER QUICK HEAVY Catalyst

#### Product Identification Numbers

LE-F100-1340-3

#### 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.

**2.3. Hazards not otherwise classified**

None.

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

| Ingredient                 | C.A.S. No. | % by Wt                |
|----------------------------|------------|------------------------|
| SODIUM ALUMINUM SILICATE   | 37244-96-5 | 60 - 70 Trade Secret * |
| VINYL-POLYDIMETHYLSILOXANE | 68083-19-2 | 15 - 25 Trade Secret * |
| POLY(DIMETHYLSILOXANE)     | 63148-62-9 | 5 - 15 Trade Secret *  |
| SILANE TREATED SILICA      | 67762-90-7 | 1 - 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.

**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 |
|--------------------------|------------|--------|-------------------------|---------------------|
| SODIUM ALUMINUM SILICATE | 37244-96-5 | CMRG   | TWA(respirable):5 mg/m3 |                     |
| SILANE TREATED SILICA    | 67762-90-7 | CMRG   | CEIL:5 mg/m3            |                     |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

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

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

**8.2. Exposure controls****8.2.1. Engineering controls**

Use in a well-ventilated area.

**8.2.2. Personal protective equipment (PPE)****Eye/face protection**

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

#### Skin/hand protection

See Section 7.1 for additional information on skin protection.

#### Respiratory protection

None required.

## SECTION 9: Physical and chemical properties

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

|  |   |
|--|---|
| <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>No Data Available</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>No Data Available</i>                        |
| <b>Flammable Limits(UEL)</b>                         | <i>No Data Available</i>                        |
| <b>Vapor Pressure</b>                                | <i>No Data Available</i>                        |
| <b>Vapor Density</b>                                 | <i>No Data Available</i>                        |
| <b>Density</b>                                       | 1.6 g/cm <sup>3</sup> - 1.7 g/cm <sup>3</sup>   |
| <b>Specific Gravity</b>                              | 1.6 - 1.7 [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>No Data Available</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**

| <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:**

May be harmful if swallowed.

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

**Toxicological Data**

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

**Acute Toxicity**

| Name                     | Route     | Species | Value   |
|--------------------------|-----------|---------|---|
| Overall product          | Ingestion |         | No data available; calculated ATE 2,000 - 5,000 mg/kg |
| SODIUM ALUMINUM SILICATE | Dermal    |         | LD50 estimated to be > 5,000 mg/kg                    |
| SODIUM ALUMINUM SILICATE | Ingestion |         | LD50 estimated to be 2,000 - 5,000 mg/kg              |

|                            |                                |        |                     |
|----------------------------|--------------------------------|--------|---------------------|
| VINYL-POLYDIMETHYLSILOXANE | Dermal                         | Rabbit | LD50 > 15,440 mg/kg |
| VINYL-POLYDIMETHYLSILOXANE | Ingestion                      | Rat    | LD50 > 15,440 mg/kg |
| POLY(DIMETHYLSILOXANE)     | Dermal                         | Rabbit | LD50 > 19,400 mg/kg |
| POLY(DIMETHYLSILOXANE)     | Ingestion                      | Rat    | LD50 > 17,000 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  |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

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

**Serious Eye Damage/Irritation**

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

**Skin Sensitization**

| Name                  | Species          | Value           |
|-----------------------|------------------|-----------------|
| SILANE TREATED SILICA | Human and animal | Not sensitizing |

**Respiratory Sensitization**

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

**Germ Cell Mutagenicity**

| Name                  | Route    | Value         |
|-----------------------|----------|---------------|
| SILANE TREATED SILICA | In Vitro | Not mutagenic |

**Carcinogenicity**

| Name                  | Route         | Species | Value  |
|-----------------------|---------------|---------|--|
| 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 toxic to female reproduction | Rat     | NOAEL 509 mg/kg/day | 1 generation      |
| SILANE TREATED SILICA | Ingestion | Not toxic to male reproduction   | Rat     | NOAEL 497 mg/kg/day | 1 generation      |
| SILANE TREATED SILICA | Ingestion | Not toxic to development         | Rat     | NOAEL 1,350         | during            |

|  |  |  |  |           |               |
|--|--|--|--|-----------|---------------|
|  |  |  |  | mg/kg/day | 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     |
|-----------------------|------------|--------------------------------|-----------------------|---------|---------------------|-----------------------|
| SILANE TREATED SILICA | Inhalation | respiratory system   silicosis | All data are negative | Human   | NOAEL Not available | occupational exposure |

**Aspiration Hazard**

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

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

**SECTION 12: Ecological information****Ecotoxicological information**

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

**Chemical fate information**

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

**SECTION 13: Disposal considerations****13.1. Disposal methods**

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

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. If no other disposal options are available, waste product that has been completely cured or polymerized may be placed in a landfill properly designed for industrial waste.

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

**SECTION 14: Transport Information**

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

**SECTION 15: Regulatory information****15.1. US Federal Regulations**

Contact 3M for more information.

**311/312 Hazard Categories:**

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

## 15.2. State Regulations

Contact 3M for more information.

## 15.3. Chemical Inventories

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

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: 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.

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 31-6686-5 | <b>Version Number:</b>  | 3.00     |
| <b>Issue Date:</b>     | 02/25/16  | <b>Supersedes Date:</b> | 10/09/14 |

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## Safety Data Sheet

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|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 31-4864-0 | <b>Version Number:</b>  | 3.00     |
| <b>Issue Date:</b>     | 02/25/16  | <b>Supersedes Date:</b> | 07/07/14 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ ESPE™ IMPRINT™ 4 SUPER QUICK LIGHT BASE

#### Product Identification Numbers

LE-F100-1309-2

#### 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

Skin Sensitizer: Category 1.

#### 2.2. Label elements

##### Signal word

Warning

##### Symbols

Exclamation mark |

**Pictograms****Hazard Statements**

May cause an allergic skin reaction.

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

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

**Response:**

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

**Disposal:**

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

**2.3. Hazards not otherwise classified**

None.

3% of the mixture consists of ingredients of unknown acute oral toxicity.  
3% of the mixture consists of ingredients of unknown acute dermal toxicity.

**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 * |
| FUSED SILICA                             | 60676-86-0    | 1 - 10 Trade Secret *  |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED | 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* | < 5 Trade Secret *     |
| TRIDYMITE                                | 15468-32-3    | < 2 Trade Secret *     |
| CORNMINT OIL                             | 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:**

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

**Eye Contact:**

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

**If Swallowed:**

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

**4.2. Most important symptoms and effects, both acute and delayed**

See Section 11.1. Information on toxicological effects.

**4.3. Indication of any immediate medical attention and special treatment required**

Not applicable

**SECTION 5: Fire-fighting measures**

**5.1. Suitable extinguishing media**

Material will not burn.

**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**

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.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove.

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

Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents. 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(as total dust):0.15 mg/m <sup>3</sup> ;TWA concentration(respirable):0.05 mg/m <sup>3</sup> (1.2 millions of particles/cu. ft.) |                             |
| QUARTZ SILICA         | 14808-60-7 | ACGIH  | TWA(respirable fraction):0.025 mg/m <sup>3</sup>  | A2: Suspected human carcin. |
| QUARTZ SILICA         | 14808-60-7 | OSHA   | TWA concentration(as total dust):0.3 mg/m <sup>3</sup> ;TWA concentration(respirable):0.1 mg/m <sup>3</sup> (2.4 millions of particles/cu. ft.)   |                             |
| TRIDYMITE             | 15468-32-3 | OSHA   | TWA concentration(as total dust):0.15 mg/m <sup>3</sup> ;TWA concentration(respirable):0.05 mg/m <sup>3</sup> (1.2 millions of particles/cu. ft.) |                             |
| SILICA, AMORPHOUS     | 60676-86-0 | OSHA   | TWA concentration:0.8 mg/m <sup>3</sup> ;TWA:20 millions of particles/cu. ft.   |                             |
| SILANE TREATED SILICA | 67762-90-7 | CMRG   | CEIL:5 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

Respiratory protection is not 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 colored paste             |
| <b>Odor threshold</b>                                | <i>No Data Available</i>                      |
| <b>pH</b>  | <i>No Data Available</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>No Data Available</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/cm <sup>3</sup> - 1.3 g/cm <sup>3</sup> |
| <b>Specific Gravity</b>                              | 1.1 - 1.3 [ <i>Ref Std: WATER=1</i> ]         |
| <b>Solubility in Water</b>                           | Negligible                                    |
| <b>Solubility- non-water</b>                         | <i>No Data Available</i>                      |
| <b>Partition coefficient: n-octanol/ water</b>       | <i>Not Applicable</i>                         |
| <b>Autoignition temperature</b>                      | <i>No Data Available</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

| <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. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### Eye Contact:

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

#### Ingestion:

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.

| <u>Ingredient</u>       | <u>CAS No.</u> | <u>Class Description</u>       | <u>Regulation</u>                           |
|-------------------------|----------------|--------------------------------|---|
| 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     |
| SILICA, CRYSTAL AIRRESP | 15468-32-3     | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| SILICA, CRYSTAL AIRRESP | 15468-32-3     | 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**

| <u>Name</u>                              | <u>Route</u>                   | <u>Species</u>         | <u>Value</u>                                    |
|--|--------------------------------|------------------------|---|
| 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                              |
| FUSED SILICA                             | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                              |
| FUSED SILICA                             | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 0.691 mg/l                               |
| FUSED SILICA                             | Ingestion                      | Rat                    | LD50 > 5,110 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                              |
| TRIDYMITE                                | Dermal                         |                        | LD50 estimated to be > 5,000 mg/kg              |
| TRIDYMITE                                | Ingestion                      |                        | LD50 estimated to be > 5,000 mg/kg              |
| QUARTZ SILICA                            | Dermal                         |                        | LD50 estimated to be > 5,000 mg/kg              |
| QUARTZ SILICA                            | Ingestion                      |                        | LD50 estimated to be > 5,000 mg/kg              |
| CORNMINT OIL                             | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                              |
| CORNMINT OIL                             | Ingestion                      | Rat                    | LD50 1,240 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 |
| FUSED SILICA                             | Rabbit                 | No significant irritation |
| SILANE TREATED SILICA                    | Rabbit                 | No significant irritation |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED | Rabbit                 | No significant irritation |
| TRIDYMITE                                | Professional judgement | No significant irritation |
| QUARTZ SILICA                            | Professional judgement | No significant irritation |
| CORNMINT OIL                             | Rabbit                 | Mild irritant             |

**Serious Eye Damage/Irritation**

| Name                                     | Species       | Value                     |
|--|---------------|---------------------------|
| VINYL-POLYDIMETHYL SILOXANE              | Rabbit        | Mild irritant             |
| FUSED SILICA                             | Rabbit        | No significant irritation |
| SILANE TREATED SILICA                    | Rabbit        | No significant irritation |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED | Rabbit        | Severe irritant           |
| CORNMINT OIL                             | In vitro data | Severe irritant           |

**Skin Sensitization**

| Name                                     | Species          | Value           |
|--|------------------|-----------------|
| FUSED SILICA                             | Human and animal | Not sensitizing |
| SILANE TREATED SILICA                    | Human and animal | Not sensitizing |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED | Guinea pig       | Not sensitizing |
| CORNMINT OIL                             | 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 |
| FUSED SILICA                             | 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  |
| TRIDYMITE                                | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| TRIDYMITE                                | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| 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   |
| FUSED SILICA          | Not Specified | Mouse            | Some positive data exist, but the data are not sufficient for classification |
| SILANE TREATED SILICA | Not Specified | Mouse            | Some positive data exist, but the data are not sufficient for classification |
| TRIDYMITE             | Inhalation    | Human and animal | Carcinogenic   |
| QUARTZ SILICA         | Inhalation    | Human and animal | Carcinogenic   |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name                                     | Route      | Value   | Species | Test Result           | Exposure Duration              |
|--|------------|---|---------|-----------------------|--------------------------------|
| FUSED SILICA                             | Ingestion  | Not toxic to female reproduction  | Rat     | NOAEL 509 mg/kg/day   | 1 generation                   |
| FUSED SILICA                             | Inhalation | Not toxic to male reproduction  | Rat     | NOAEL 497 mg/kg/day   | 1 generation                   |
| FUSED SILICA                             | Ingestion  | Not toxic to development  | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis           |
| SILANE TREATED SILICA                    | Ingestion  | Not toxic to female reproduction  | Rat     | NOAEL 509 mg/kg/day   | 1 generation                   |
| SILANE TREATED SILICA                    | Ingestion  | Not toxic to male reproduction  | Rat     | NOAEL 497 mg/kg/day   | 1 generation                   |
| SILANE TREATED SILICA                    | Ingestion  | Not toxic to development  | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis           |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED | Ingestion  | Some positive reproductive/developmental data exist, but the data are not sufficient for classification | Rat     | NOAEL 450 mg/kg/day   | prematuring & during gestation |
| FLUORINATED POLYETHER                    | Ingestion  | Not toxic to reproduction and/or development  | Rat     | NOAEL 1,000 mg/kg/day | prematuring into lactation     |
| FLUORINATED POLYETHER                    | Ingestion  | Not toxic to female reproduction  | Rat     | NOAEL 1,000 mg/kg/day | prematuring into lactation     |
| FLUORINATED POLYETHER                    | Ingestion  | Not toxic to male reproduction  | Rat     | NOAEL 1,000 mg/kg/day | prematuring into lactation     |

**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 |
| FUSED SILICA          | Inhalation | respiratory system   silicosis      | All data are negative  | Human   | NOAEL Not available | occupational exposure |
| SILANE TREATED SILICA | Inhalation | respiratory system   silicosis      | All data are negative  | Human   | NOAEL Not available | occupational exposure |
| FLUORINATED POLYETHER | Ingestion  | auditory system   heart   endocrine | All data are negative  | Rat     | NOAEL 1,000         | 28 days               |

|               |            |   |  |       |                     |                       |
|---------------|------------|---|--|-------|---------------------|-----------------------|
|               |            | system   hematopoietic system   liver   immune system   muscles   nervous system   eyes |  |       | mg/kg/day           |                       |
| TRIDYMITE     | Inhalation | silicosis   | Causes damage to organs through prolonged or repeated exposure | 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.

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. If no other disposal options are available, waste product that has been completely cured or polymerized may be placed in a landfill properly designed for industrial waste. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

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

**SECTION 14: Transport Information**

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

**SECTION 15: Regulatory information****15.1. US Federal Regulations**

Contact 3M for more information.

**311/312 Hazard Categories:**

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



## 15.2. State Regulations

Contact 3M for more information.

## 15.3. Chemical Inventories

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

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: 2 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.

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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