SAFETY DATA SHEETS

This SDS packet was issued with item:

075028584

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

075013909

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

070121210 070392902



Safety Data Sheet

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 Document Group:
 31-4879-8
 Version Number:
 4.01

 Issue Date:
 08/25/20
 Supercedes Date:
 02/21/19

SECTION 1: Identification

1.1. Product identifier

3MTM ImprintTM 4 Regular Base

Product Identification Numbers

LE-F100-1309-8

1.2. Recommended use and restrictions on use

Recommended use

Dental Product, Impression material

Restrictions on use

For use only by dental professionals.

1.3. Supplier's details

MANUFACTURER: 3M

DIVISION: Oral Care Solutions Division

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

Telephone: 1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

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

SECTION 2: Hazard identification

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

2.1. Hazard classification

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

2.2. Label elements

Signal word

Not applicable.

Symbols

Not applicable.

Pictograms

Not applicable.

SECTION 3: Composition/information on ingredients

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

^{*}The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

No need for first aid is anticipated.

Skin Contact:

Wash with soap and water. If signs/symptoms develop, get medical attention.

Eye Contact:

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

If Swallowed:

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

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

See Section 11.1. Information on toxicological effects.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance Carbon monoxide Carbon dioxide Irritant Vapors or Gases Condition **During Combustion During Combustion**

During Combustion

5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Observe precautions from other sections.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid prolonged or repeated skin contact. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

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

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

| 3M TM Imprint TM 4 Regular Base | 09/25/20 | |
|---|----------|--|
| 3M ^{1M} Imprint ^{1M} 4 Regular Base | 08/25/20 | |

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

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

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

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

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use in a well-ventilated area.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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

Safety Glasses with side shields

Skin/hand protection

See Section 7.1 for additional information on skin protection.

Respiratory protection

None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Solid Color White

Specific Physical Form: Paste **Odor** Minty

Odor threshold No Data Available Not Applicable Hq Not Applicable **Melting point Boiling Point** Not Applicable **Flash Point** No flash point **Evaporation rate** Not Applicable Flammability (solid, gas) Not Classified Flammable Limits(LEL) Not Applicable Flammable Limits(UEL) Not Applicable **Vapor Pressure** No Data Available **Vapor Density** No Data Available **Density** 1.1 - 1.3 g/cm3

Specific Gravity 1.1 - 1.3 [*Ref Std:* WATER=1]

Solubility in Water Negligible

Solubility- non-waterPartition coefficient: n-octanol/ water
No Data Available
No Data Available

Autoignition temperatureNot ApplicableDecomposition temperatureNo Data AvailableViscosityNo Data AvailableVolatile Organic CompoundsNot ApplicablePercent volatileNot ApplicableVOC Less H2O & Exempt SolventsNot Applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Amines Strong acids Strong bases Strong oxidizing agents

10.6. Hazardous decomposition products

Substance

Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

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

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

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation:

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

Skin Contact:

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

Eye Contact:

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

Ingestion:

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

Additional Health Effects:

Carcinogenicity:

Exposures needed to cause the following health effect(s) are not expected during normal, intended use: Contains a chemical or chemicals which can cause cancer.

| Ingredient | CAS No. | Class Description | Regulation |
|---------------|------------|--------------------------------|---|
| CRISTOBALITE | 14464-46-1 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| QUARTZ SILICA | 14808-60-7 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |

Toxicological Data

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

Acute Toxicity

| Name | Route | Species | Value |
|---|---------------------------------------|-----------------------------------|--|
| Overall product | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| VINYL-POLYDIMETHYL SILOXANE | Dermal | Rabbit | LD50 > 15,440 mg/kg |
| VINYL-POLYDIMETHYL SILOXANE | Ingestion | Rat | LD50 > 15,440 mg/kg |
| CRISTOBALITE | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| CRISTOBALITE | Ingestion | | LD50 estimated to be > 5,000 mg/kg |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID | Ingestion | Rat | LD50 > 2,000 mg/kg |
| SILANE TREATED SILICA | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| SILANE TREATED SILICA | Inhalation- Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| SILANE TREATED SILICA | Ingestion | Rat | LD50 > 5,110 mg/kg |
| POLYALKYLENEOXIDE MODIFIED HEPTAMETHYLTRISILOXANE | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| POLYALKYLENEOXIDE MODIFIED HEPTAMETHYLTRISILOXANE | Inhalation- Dust/Mist (4 hours) | Rat | LC50 2 mg/l |
| POLYALKYLENEOXIDE MODIFIED HEPTAMETHYLTRISILOXANE | Ingestion | Rat | LD50 > 2,000 mg/kg |
| ALLYLTRIMETHYLSILANE | Dermal | Professio nal judgeme nt | LD50 estimated to be 2,000 - 5,000 mg/kg |
| ALLYLTRIMETHYLSILANE | Ingestion | similar compoun ds | LD50 estimated to be 2,000 - 5,000 mg/kg |
| FLUORINATED POLYETHER | Dermal | Professio nal judgeme nt | LD50 estimated to be > 5,000 mg/kg |
| FLUORINATED POLYETHER | Ingestion | Rat | LD50 > 1,000 mg/kg |
| Oils, mint, Mentha arvensis piperascenssis, var. piperascens, Labiatae. | Dermal | Rabbit | LD50 > 5,000 mg/kg |

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| $3M^{TM}$ | Imprint TM | 4 | Regular | Base |
|-----------|-----------------------|---|---------|------|
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| | | |

| Oils, mint, Mentha arvensis piperascenssis, var. piperascens, Labiatae. | Ingestion | Rat | LD50 1,240 mg/kg |
|---|-----------|-----|------------------------------------|
| QUARTZ SILICA | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| QUARTZ SILICA | Ingestion | | LD50 estimated to be > 5,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---|-----------|---------------------------|
| | | |
| VINYL-POLYDIMETHYL SILOXANE | Rabbit | No significant irritation |
| CRISTOBALITE | Professio | No significant irritation |
| | nal | |
| | judgeme | |
| | nt | |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID | Rabbit | No significant irritation |
| SILANE TREATED SILICA | Rabbit | No significant irritation |
| POLYALKYLENEOXIDE MODIFIED HEPTAMETHYLTRISILOXANE | Rabbit | No significant irritation |
| ALLYLTRIMETHYLSILANE | Not | Irritant |
| | available | |
| Oils, mint, Mentha arvensis piperascenssis, var. piperascens, Labiatae. | Rabbit | Mild irritant |
| QUARTZ SILICA | Professio | No significant irritation |
| | nal | |
| | judgeme | |
| | nt | |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---|-----------|---------------------------|
| | | |
| VINYL-POLYDIMETHYL SILOXANE | Rabbit | Mild irritant |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID | Rabbit | Mild irritant |
| SILANE TREATED SILICA | Rabbit | No significant irritation |
| POLYALKYLENEOXIDE MODIFIED HEPTAMETHYLTRISILOXANE | Rabbit | Severe irritant |
| ALLYLTRIMETHYLSILANE | Not | Severe irritant |
| | available | |
| Oils, mint, Mentha arvensis piperascenssis, var. piperascens, Labiatae. | In vitro | Severe irritant |
| | data | |

Skin Sensitization

| Name | Species | Value |
|---|---------|----------------|
| DIMETHYL METHYL HYDROGEN SILICONE FLUID | Guinea | Not classified |
| | pig | |
| SILANE TREATED SILICA | Human | Not classified |
| | and | |
| | animal | |
| POLYALKYLENEOXIDE MODIFIED HEPTAMETHYLTRISILOXANE | Guinea | Not classified |
| | pig | |
| Oils, mint, Mentha arvensis piperascenssis, var. piperascens, Labiatae. | Guinea | Sensitizing |
| | pig | |

Respiratory Sensitization

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

Germ Cell Mutagenicity

| Name | Route | Value |
|---|----------|--|
| CRISTOBALITE | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| CRISTOBALITE | In vivo | Some positive data exist, but the data are not sufficient for classification |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID | In Vitro | Not mutagenic |
| SILANE TREATED SILICA | In Vitro | Not mutagenic |
| POLYALKYLENEOXIDE MODIFIED HEPTAMETHYLTRISILOXANE | In Vitro | Not mutagenic |

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

Carcinogenicity

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

Reproductive Toxicity

Reproductive and/or Developmental Effects

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

Target Organ(s)

Specific Target Organ Toxicity - single exposure

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

Specific Target Organ Toxicity - repeated exposure

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

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| | prolonged or repeated exposure | available | exposure |
|--|--------------------------------|-----------|----------|

Aspiration Hazard

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

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

SECTION 12: Ecological information

Ecotoxicological information

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

Chemical fate information

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

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

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

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:

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

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

Additional TSCA Information

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

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

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

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

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

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

SECTION 16: Other information

NFPA Hazard Classification

Health: 1 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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 08/25/20
 Supercedes Date:
 02/21/19

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Safety Data Sheet

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 08/25/20
 Supercedes Date:
 12/09/19

SECTION 1: Identification

1.1. Product identifier

3MTM ImprintTM 4 Light Base

Product Identification Numbers

LE-F100-1309-1

1.2. Recommended use and restrictions on use

Recommended use

Dental Product, Impression Material

Restrictions on use

For use only by dental professionals.

1.3. Supplier's details

MANUFACTURER: 3M

DIVISION: Oral Care Solutions Division

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

Telephone: 1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

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

SECTION 2: Hazard identification

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

2.1. Hazard classification

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

2.2. Label elements

Signal word

Not applicable.

Symbols

Not applicable.

Pictograms

Not applicable.

Precautionary Statements

Prevention:

Wear eye/face protection.

SECTION 3: Composition/information on ingredients

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

^{*}The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

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

Skin Contact:

Wash with soap and water. If signs/symptoms develop, get medical attention.

Eye Contact:

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

If Swallowed:

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

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

See Section 11.1. Information on toxicological effects.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Material will not burn.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide Carbon dioxide Irritant Vapors or Gases

Condition

During Combustion During Combustion During Combustion

5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid prolonged or repeated skin contact. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

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

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

| 3M TM Imprint TM 4 Light Base | 08/25/20 | |
|---|----------|--|
| 3M ^{1M} Imprint ^{1M} 4 Light Base | U8/23/2U | |

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

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

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

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

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use in a well-ventilated area.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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

Safety Glasses with side shields

Skin/hand protection

See Section 7.1 for additional information on skin protection.

Respiratory protection

Respiratory protection is not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Solid Color White

Specific Physical Form: Paste **Odor** Minty

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

3MTM ImprintTM 4 Light Base

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Density 1.1 - 1.3 g/cm3

Specific Gravity 1.1 - 1.3 [*Ref Std*:WATER=1]

Solubility in Water Negligible

Solubility- non-water No Data Available Partition coefficient: n-octanol/ water Not Applicable **Autoignition temperature** No Data Available **Decomposition temperature** No Data Available Viscosity No Data Available **Volatile Organic Compounds** Not Applicable Percent volatile Not Applicable

VOC Less H2O & Exempt Solvents Not Applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Amines

Strong acids

Strong bases

Strong oxidizing agents

10.6. Hazardous decomposition products

Substance **Condition**

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure. The information below represents toxicological information associated with the individual components of the uncured product. Once properly mixed and/or cured, the product is safe for its intended use.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation:

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

Skin Contact:

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

Eye Contact:

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

Ingestion:

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

Additional Health Effects:

Carcinogenicity:

Exposures needed to cause the following health effect(s) are not expected during normal, intended use: Contains a chemical or chemicals which can cause cancer.

| <u>Ingredient</u> | CAS No. | Class Description | Regulation |
|-------------------|------------|--------------------------------|---|
| CRISTOBALITE | 14464-46-1 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| QUARTZ SILICA | 14808-60-7 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |

Toxicological Data

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

Acute Toxicity

| Name | Route | Species | Value |
|--|-------------|-----------|--|
| Overall product | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| VINYL-POLYDIMETHYL SILOXANE | Dermal | Rabbit | LD50 > 15,440 mg/kg |
| VINYL-POLYDIMETHYL SILOXANE | Ingestion | Rat | LD50 > 15,440 mg/kg |
| CRISTOBALITE | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| CRISTOBALITE | Ingestion | | LD50 estimated to be > 5,000 mg/kg |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID | Ingestion | Rat | LD50 > 2,000 mg/kg |
| SILANE TREATED SILICA | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| SILANE TREATED SILICA | Inhalation- | Rat | LC50 > 0.691 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| 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- | Rat | LC50 2 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED | Ingestion | Rat | LD50 > 2,000 mg/kg |
| ALLYLTRIMETHYLSILANE | Dermal | Professio | LD50 estimated to be 2,000 - 5,000 mg/kg |
| | | nal | |
| | | judgeme | |
| | | nt | |
| ALLYLTRIMETHYLSILANE | Ingestion | similar | LD50 estimated to be 2,000 - 5,000 mg/kg |
| | _ | compoun | |
| | | ds | |
| FLUORINATED POLYETHER | Dermal | Professio | LD50 estimated to be > 5,000 mg/kg |
| | | nal | |

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

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---|-----------|---------------------------|
| | | |
| VINYL-POLYDIMETHYL SILOXANE | Rabbit | No significant irritation |
| CRISTOBALITE | Professio | No significant irritation |
| | nal | |
| | judgeme | |
| | nt | |
| DIMETHYL METHYL HYDROGEN SILICONE FLUID | Rabbit | No significant irritation |
| SILANE TREATED SILICA | Rabbit | No significant irritation |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED | Rabbit | No significant irritation |
| ALLYLTRIMETHYLSILANE | Not | Irritant |
| | available | |
| Oils, mint, Mentha arvensis piperascenssis, var. piperascens, Labiatae. | Rabbit | Mild irritant |
| QUARTZ SILICA | Professio | No significant irritation |
| | nal | |
| | judgeme | |
| | nt | |

Serious Eye Damage/Irritation

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

Skin Sensitization

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

Respiratory Sensitization

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

Germ Cell Mutagenicity

| Name | Route | Value |
|--------------|----------|--|
| CRISTOBALITE | In Vitro | Some positive data exist, but the data are not sufficient for classification |

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

Carcinogenicity

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

Reproductive Toxicity

Reproductive and/or Developmental Effects

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

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| N. | | T + C | ¥7. 3 | a • | T (D 1 | _ |
|-------------------|------------|------------------------|----------------------------------|-----------|-------------|----------|
| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure |
| | | | | | | Duration |
| ALLYLTRIMETHYLSIL | Inhalation | respiratory irritation | May cause respiratory irritation | Not | NOAEL Not | |
| ANE | | | | available | available | |

Specific Target Organ Toxicity - repeated exposure

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

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| | | | system liver immune system muscles nervous system eyes | | | | |
|--------------|----|------------|---|---------------------------------|-------|-----------|--------------|
| QUARTZ SILIO | CA | Inhalation | silicosis | Causes damage to organs through | Human | NOAEL Not | occupational |
| | | | | prolonged or repeated exposure | | available | exposure |

Aspiration Hazard

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

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

SECTION 12: Ecological information

Ecotoxicological information

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

Chemical fate information

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

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

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

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:

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

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

Additional TSCA Information

| 3M™ Imprint™ 4 Light Base | 08/25/20 | |
|---------------------------|----------|--|
|---------------------------|----------|--|

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

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

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

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

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

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

SECTION 16: Other information

NFPA Hazard Classification

Health: 1 Flammability: 0 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

 Document Group:
 31-4863-2
 Version Number:
 4.01

 Issue Date:
 08/25/20
 Supercedes Date:
 12/09/19

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Safety Data Sheet

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 Document Group:
 31-4841-8
 Version Number:
 3.00

 Issue Date:
 02/25/16
 Supercedes Date:
 10/09/14

SECTION 1: Identification

1.1. Product identifier

3MTM ESPETM IMPRINTTM 4 HEAVY CATALYST

Product Identification Numbers

LE-F100-1307-3

1.2. Recommended use and restrictions on use

Recommended use

Dental Product, Impression Material

Restrictions on use

For us only by dental professionals

1.3. Supplier's details

MANUFACTURER: 3M

DIVISION: Oral Care Solutions Division

ADDRESS: 3M Center, St. Paul, MN 55144-1000, USA **Telephone:** 1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

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

SECTION 2: Hazard identification

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

2.1. Hazard classification

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.

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Pictograms

Not applicable.

2.3. Hazards not otherwise classified

None.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|----------------------------|------------|------------------------|
| CRISTOBALITE | 14464-46-1 | 30 - 40 Trade Secret * |
| VINYL-POLYDIMETHYLSILOXANE | 68083-19-2 | 30 - 40 Trade Secret * |
| FUSED SILICA | 60676-86-0 | 10 - 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 | 1 - 10 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

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

Carbon monoxideDuring CombustionCarbon dioxideDuring CombustionIrritant Vapors or GasesDuring Combustion

5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid prolonged or repeated skin contact. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

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

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|---------------|------------|--------|--------------------------------|----------------------------|
| CRISTOBALITE | 14464-46-1 | ACGIH | TWA(respirable | A2: Suspected human |
| | | | fraction):0.025 mg/m3 | carcin. |
| CRISTOBALITE | 14464-46-1 | OSHA | TWA concentration(as total | |
| | | | dust):0.15 mg/m3;TWA | |
| | | | concentration(respirable):0.05 | |
| | | | mg/m3(1.2 millions of | |
| | | | particles/cu. ft.) | |
| QUARTZ SILICA | 14808-60-7 | ACGIH | TWA(respirable | A2: Suspected human |
| | | | fraction):0.025 mg/m3 | carcin. |
| QUARTZ SILICA | 14808-60-7 | OSHA | TWA concentration(as total | |
| | | | dust):0.3 mg/m3;TWA | |
| | | | concentration(respirable):0.1 | |
| | | | mg/m3(2.4 millions of | |
| | | | particles/cu. ft.) | |
| TRIDYMITE | 15468-32-3 | OSHA | TWA concentration(as total | |
| | | | dust):0.15 mg/m3;TWA | |

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| | | | concentration(respirable):0.05 mg/m3(1.2 millions of particles/cu. ft.) |
|-----------------------|------------|------|---|
| SILICA, AMORPHOUS | 60676-86-0 | OSHA | TWA concentration:0.8 mg/m3;TWA:20 millions of particles/cu. ft. |
| SILANE TREATED SILICA | 67762-90-7 | CMRG | CEIL:5 mg/m3 |
| SILICA, AMORPHOUS | 67762-90-7 | OSHA | TWA concentration:0.8 mg/m3;TWA:20 millions of particles/cu. ft. |

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

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

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

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use in a well-ventilated area.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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

Safety Glasses with side shields

Skin/hand protection

See Section 7.1 for additional information on skin protection.

Respiratory protection

Respiratory protection is not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Physical Form:Specific Physical Form:

Paste

Odor, Color, Grade: slight characteristic odor, blue colored paste

Odor thresholdNo Data AvailablepHNo Data AvailableMelting pointNot ApplicableBoiling PointNot Applicable

Flash Point Flash point > 93 °C (200 °F)

Evaporation rate

Flammability (solid, gas)

Flammable Limits(LEL)

Flammable Limits(UEL)

Vapor Pressure

Vapor Density

No Data Available

1.4 g/cm3 - 1.6 g/cm3

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3MTM ESPETM IMPRINTTM 4 HEAVY CATALYST 02/25/16

1.4 - 1.6 [*Ref Std:* WATER=1] **Specific Gravity**

Solubility in Water Negligible No Data Available Solubility- non-water Partition coefficient: n-octanol/ water Not Applicable **Autoignition temperature** No Data Available No Data Available **Decomposition temperature** Viscosity No Data Available **Volatile Organic Compounds** Not Applicable Not Applicable

Percent volatile **VOC Less H2O & Exempt Solvents** Not Applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Amines Strong acids

Strong bases

Strong oxidizing agents

10.6. Hazardous decomposition products

Substance Condition

None known

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

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

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

11.1. Information on Toxicological effects

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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, CRYS AIRRESP | 14464-46-1 | Known human carcinogen | National Toxicology Program Carcinogens |
| SILICA, CRYS AIRRESP | 14808-60-7 | Known human carcinogen | National Toxicology Program Carcinogens |
| SILICA, CRYS AIRRESP | 15468-32-3 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| SILICA, CRYS 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

| Acute Toxicity | T_ | | T == - |
|----------------------------|-------------|---------|---|
| 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- | Rat | LC50 > 0.691 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| FUSED SILICA | Ingestion | Rat | LD50 > 5,110 mg/kg |
| SILANE TREATED SILICA | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| SILANE TREATED SILICA | Inhalation- | Rat | LC50 > 0.691 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| 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 |
| 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 | Professio | No significant irritation |
| | nal | |
| | judgeme | |
| | nt | |
| FUSED SILICA | Rabbit | No significant irritation |
| SILANE TREATED SILICA | Rabbit | No significant irritation |
| POLY(DIMETHYLSILOXANE) | Rabbit | No significant irritation |
| TRIDYMITE | Professio | No significant irritation |
| | nal | |
| | judgeme | |
| | nt | |
| QUARTZ SILICA | Professio | No significant irritation |
| | nal | |
| | judgeme | |
| | nt | |

Serious Eye Damage/Irritation

| Name | | 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 | Not sensitizing |
| | and | |
| | animal | |
| SILANE TREATED SILICA | Human | Not sensitizing |
| | and | |
| | animal | |

Respiratory Sensitization

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

Germ Cell Mutagenicity

| Name | Route | Value | |
|-----------------------|----------|---|--|
| CRISTOBALITE | In Vitro | Some positive data exist, but the data are not | |
| CRISTOBALITE | In vivo | sufficient for classification 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 | Carcinogenic |
| | | and | |

| | | animal | |
|-----------------------|------------------|------------------------|--|
| FUSED SILICA | Not | Mouse | Some positive data exist, but the data are not |
| | Specified | | 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 organogenesi s |
| 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 organogenesi s |

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

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and/or its components.

Chemical fate information

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

SECTION 13: Disposal considerations

13.1. Disposal methods

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

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

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

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

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

311/312 Hazard Categories:

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

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

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

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

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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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Safety Data Sheet

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 3.00

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 02/25/16
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 07/08/14

SECTION 1: Identification

1.1. Product identifier

3MTM ESPETM IMPRINTTM 4 PENTATM HEAVY Base

Product Identification Numbers

LE-F100-1339-7

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

MANUFACTURER: 3M

DIVISION: Oral Care Solutions Division

ADDRESS: 3M Center, St. Paul, MN 55144-1000, USA **Telephone:** 1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

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

SECTION 2: Hazard identification

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

2.1. Hazard classification

Skin Sensitizer: Category 1.

2.2. Label elements

Signal word

Warning

Symbols

Exclamation mark |

Page 1 of 10

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 | 68037-59-2 | 5 - 15 Trade Secret * |
| FLUID | | |
| SILANE TREATED SILICA | 67762-90-7 | 1 - 10 Trade Secret * |
| ALLYLTRIMETYLSILANE | 762-72-1 | < 2 Trade Secret * |
| ALUMINUM OXIDE | 1344-28-1 | < 2 Trade Secret * |
| POLYETHYLENE GLYCOL, SILOXANE | 27306-78-1 | < 2 Trade Secret * |
| TERMINATED | | |
| Oils, mint, Mentha arvensis piperascenssis, var. | 68917-18-0 | < 0.3 Trade Secret * |
| piperascens, Labiatae. | | |

^{*}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

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. 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/m3;TWA(respirable | |
| | | | fraction):5 mg/m3 | |
| Aluminum, insoluble compounds | 1344-28-1 | ACGIH | TWA(respirable fraction):1 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

Respiratory protection is not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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General Physical Form:Specific Physical Form:

Paste

Odor, Color, Grade: Smell of mint, blue colored paste

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

Specific Gravity 1.5 - 1.7 [*Ref Std:* WATER=1]

Solubility in WaterNegligibleSolubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNot ApplicableDecomposition temperatureNo Data Available

Decomposition temperatureNo Data AvailableViscosityNo Data AvailableVolatile Organic CompoundsNot ApplicablePercent volatileNot ApplicableVOC Less H2O & Exempt SolventsNot Applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Density

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

1.5 - 1.7 g/cm3

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.

Toxicological Data

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

Acute Toxicity

| Name | Route | Species | Value |
|--|-------------|---------|---|
| Overall product | Dermal | | No data available; calculated ATE > 5,000 mg/kg |
| Overall product | Ingestion | | No data available; calculated ATE > 5,000 mg/kg |
| VINYL-POLYDIMETHYL SILOXANE | Dermal | Rabbit | LD50 > 15,440 mg/kg |
| VINYL-POLYDIMETHYL SILOXANE | Ingestion | Rat | LD50 > 15,440 mg/kg |
| 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- | Rat | LC50 > 0.691 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| 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- | Rat | LC50 2 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED | Ingestion | Rat | LD50 > 2,000 mg/kg |
| ALUMINUM OXIDE | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| ALUMINUM OXIDE | Inhalation- | Rat | LC50 > 2.3 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| ALUMINUM OXIDE | Ingestion | Rat | LD50 > 5,000 mg/kg |

| ALLYLTRIMETYLSILANE | Dermal | Professio | LD50 estimated to be 2,000 - 5,000 mg/kg |
|---|-----------|-----------|--|
| | | nal | |
| | | judgeme | |
| | | nt | |
| ALLYLTRIMETYLSILANE | Ingestion | similar | LD50 estimated to be 2,000 - 5,000 mg/kg |
| | | compoun | |
| | | ds | |
| Oils, mint, Mentha arvensis piperascenssis, var. piperascens, | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Labiatae. | | | |
| Oils, mint, Mentha arvensis piperascenssis, var. piperascens, | Ingestion | Rat | LD50 1,240 mg/kg |
| Labiatae. | | | |

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 TERMINATED | Rabbit | No significant irritation |
| ALUMINUM OXIDE | Rabbit | No significant irritation |
| Oils, mint, Mentha arvensis piperascenssis, 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 TERMINATED | Rabbit | Severe irritant |
| ALUMINUM OXIDE | Rabbit | No significant irritation |
| Oils, mint, Mentha arvensis piperascenssis, var. piperascens, Labiatae. | In vitro | Severe irritant |
| | data | |

Skin Sensitization

| Skin Schsitzation | | |
|---|---------|-----------------|
| Name | Species | Value |
| SILANE TREATED SILICA | Human | Not sensitizing |
| | and | |
| | animal | |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED | Guinea | Not sensitizing |
| | pig | |
| Oils, mint, Mentha arvensis piperascenssis, var. piperascens, Labiatae. | Guinea | Sensitizing |
| | pig | |

Respiratory Sensitization

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

Germ Cell Mutagenicity

| Germ Cen Mutagementy | | |
|--|----------|---------------|
| Name | Route | Value |
| | | |
| | | |
| SILANE TREATED SILICA | In Vitro | Not mutagenic |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED | In Vitro | Not mutagenic |
| POLYETHYLENE GLYCOL, SILOXANE TERMINATED | In vivo | Not mutagenic |
| ALUMINUM OXIDE | In Vitro | Not mutagenic |

Carcinogenicity

| caremogemeny | | | |
|-----------------------|------------------|---------|--|
| 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 |

Reproductive Toxicity

Reproductive and/or Developmental Effects

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| 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 organogenesi s |
| 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 | 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 |

Aspiration Hazard

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

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

SECTION 12: Ecological information

Ecotoxicological information

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

Chemical fate information

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

SECTION 13: Disposal considerations

13.1. Disposal methods

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

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

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

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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 | C.A.S. No | <u>% by Wt</u> |
|--------------------------------|-----------|------------------|
| ALUMINUM OXIDE | 1344-28-1 | Trade Secret < 2 |
| ALUMINUM OXIDE (ALUMINUM OXIDE | 1344-28-1 | < 2 |
| (FIBROUS FORMS ONLY)) | | |

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: 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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Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3MTM ESPETM IMPRINTTM 4 LIGHT CATALYST

Product Identification Numbers

LE-F100-1309-6

1.2. Recommended use and restrictions on use

Recommended use

Dental Product, Impression Material

Restrictions on use

For us only by dental professionals.

1.3. Supplier's details

MANUFACTURER: 3M

DIVISION: Oral Care Solutions Division

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

Telephone: 1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

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

SECTION 2: Hazard identification

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

2.1. Hazard classification

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

2.2. Label elements

Signal word

Not applicable.

Symbols

Not applicable.

Pictograms

Not applicable.

SECTION 3: Composition/information on ingredients

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

^{*}The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

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

Skin Contact:

Wash with soap and water. If signs/symptoms develop, get medical attention.

Eye Contact:

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

If Swallowed:

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

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

See Section 11.1. Information on toxicological effects.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

SubstanceConditionCarbon monoxideDuring CombustionCarbon dioxideDuring CombustionIrritant Vapors or GasesDuring Combustion

_ _ _

5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid prolonged or repeated skin contact. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

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

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|-------------------|------------|--------|--------------------------------|----------------------------|
| CRISTOBALITE | 14464-46-1 | ACGIH | TWA(respirable | A2: Suspected human |
| | | | fraction):0.025 mg/m3 | carcin. |
| CRISTOBALITE | 14464-46-1 | OSHA | TWA | |
| | | | concentration(respirable):0.05 | |
| | | | mg/m3(1.2 millions of | |
| | | | particles/cu. ft.);TWA:0.05 | |
| | | | mg/m3 | |
| SILICA, AMORPHOUS | 67762-90-7 | OSHA | TWA concentration:0.8 | |
| | | | mg/m3;TWA:20 millions of | |
| | | | particles/cu. ft. | |

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

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

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

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use in a well-ventilated area.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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

Skin/hand protection

See Section 7.1 for additional information on skin protection.

Respiratory protection

None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical stateSolidColorPink

Specific Physical Form: Paste

Odor Slight Odor, Characteristic Odor

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

Specific Gravity 1.2 - 1.4 [Ref Std:WATER=1]

Solubility in Water

Solubility- non-water

Partition coefficient: n-octanol/ water

Autoignition temperature

Decomposition temperature

No Data Available

Volatile Organic Compounds

Percent volatile

VOC Less H2O & Exempt Solvents

No Data Availate
Not Applicable
Not Applicable
Not Applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Density

1.2 g/cm3 - 1.4 g/cm3

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

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Amines
Strong acids
Strong bases
Strong oxidizing agents

10.6. Hazardous decomposition products

Substance

Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure. The information below represents toxicological information associated with the individual components of the uncured product. Once properly mixed and/or cured, the product is safe for its intended use.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation:

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

Skin Contact:

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

Eve Contact:

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

Ingestion:

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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, CRYS AIRRESP | 14464-46-1 | Known human carcinogen | National Toxicology Program Carcinogens |
| CRISTOBALITE | 14464-46-1 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |

Toxicological Data

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

Acute Toxicity

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

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Skin Corrosion/111tation | | | | |
|----------------------------|-----------|---------------------------|--|--|
| Name | Species | Value | | |
| | ' | | | |
| VINYL-POLYDIMETHYLSILOXANE | Rabbit | No significant irritation | | |
| CRISTOBALITE | Professio | No significant irritation | | |
| | nal | | | |
| | judgeme | | | |
| | nt | | | |
| SILANE TREATED SILICA | Rabbit | No significant irritation | | |
| POLY(DIMETHYLSILOXANE) | Rabbit | No significant irritation | | |

Serious Eye Damage/Irritation

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

Skin Sensitization

| OKIII OCIISICIZATIOII | | | | | |
|-----------------------|---------|----------------|--|--|--|
| Name | Species | Value | | | |
| SILANE TREATED SILICA | Human | Not classified | | | |
| | and | | | | |
| | animal | | | | |

Respiratory Sensitization

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

Germ Cell Mutagenicity

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

Carcinogenicity

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

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure |
|-----------------------|-----------|--|---------|--------------------------|-----------------------------|
| | | | | | Duration |
| SILANE TREATED SILICA | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| SILANE TREATED SILICA | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| SILANE TREATED SILICA | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesi s |

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 | Human | NOAEL Not | occupational |
| | | | prolonged or repeated exposure | | available | exposure |
| SILANE TREATED | Inhalation | respiratory system | Not classified | Human | NOAEL Not | occupational |
| SILICA | | silicosis | | | available | exposure |

Aspiration Hazard

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

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

SECTION 12: Ecological information

Ecotoxicological information

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

Chemical fate information

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

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

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

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:

Physical Hazards

Not applicable

Health Hazards

Not applicable

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

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

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

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

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

SECTION 16: Other information

NFPA Hazard Classification

Health: 0 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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 1.06

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 07/08/19
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 12/29/17

SECTION 1: Identification

1.1. Product identifier

3MTM VPS Tray Adhesive - New Formulation

Product Identification Numbers

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

1.2. Recommended use and restrictions on use

Recommended use

Dental Product, Tray Adhesive

Restrictions on use

For use only by dental professionals

1.3. Supplier's details

MANUFACTURER: 3M

DIVISION: Oral Care Solutions Division

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

Telephone: 1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

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

SECTION 2: Hazard identification

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

2.1. Hazard classification

Flammable Liquid: Category 2.

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

2.2. Label elements

Signal word

Danger

Symbols

Flame | Exclamation mark |

Pictograms



Hazard Statements

Highly flammable liquid and vapor.

May cause drowsiness or dizziness.

Precautionary Statements

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only in a well-ventilated area.

Wear protective gloves and eye/face protection.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Call a POISON CENTER or doctor/physician if you feel unwell.

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

Storage:

Store in a well-ventilated place. Keep cool.

Keep container tightly closed.

Disposal:

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

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

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|--|------------|------------------------|
| ETHYL ACETATE | 141-78-6 | 40 - 60 Trade Secret * |
| HYDROXY-TERMINATED DIMETHYLSILOXANE, REACTION PRODUCTS WITH CHLOROTRIMETHYLSILANE, HYDROCHLORIC ACID, ISOPROPYL ALCOHOL, AND SODIUM SILICATE | 68440-70-0 | 40 - 60 Trade Secret * |

^{*}The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade

secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

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

Skin Contact:

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

Eye Contact:

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

If Swallowed:

Rinse mouth. Do not induce vomiting. Get immediate medical attention.

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

See Section 11.1. Information on toxicological effects.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

5.2. Special hazards arising from the substance or mixture

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

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

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

approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid prolonged or repeated skin contact. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Do not get in eyes.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

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

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|---------------|------------|--------|-------------------------|---------------------|
| ETHYL ACETATE | 141-78-6 | ACGIH | TWA:400 ppm | |
| ETHYL ACETATE | 141-78-6 | OSHA | TWA:1400 mg/m3(400 ppm) | |

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

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

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

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use in a well-ventilated area.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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

Safety Glasses with side shields

Skin/hand protection

See Section 7.1 for additional information on skin protection.

Respiratory protection

None required.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Physical Form:

Specific Physical Form:

Viscous

Odor, Color, Grade: Red liquid with characteristic organic solvent odor.

Odor thresholdNo Data AvailablepHNo Data AvailableMelting pointNo Data Available

Boiling Point 169 °F

Flash Point 25 °F [Test Method:Closed Cup]

Evaporation rateNo Data Available
Flammability (solid, gas)
Not Applicable

Flammable Limits(LEL)

Flammable Limits(UEL)

Vapor Pressure

1.2 %

11.5 %

131 mmHg

Vapor Density> 1 [Ref Std: AIR=1]DensityApproximately 0.9 g/cm3Specific Gravity> 0.9 [Ref Std: WATER=1]

Solubility in Water Nil

Solubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosityApproximately 0.25 Pa-sMolecular weightNo Data AvailablePercent volatileNo Data Available

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Sparks and/or flames

Heat

10.5. Incompatible materials

Strong acids

Strong oxidizing agents

No Data Available

10.6. Hazardous decomposition products

Substance Condition

Carbon monoxide Oxidation, heat or reaction
Carbon dioxide Oxidation, heat or reaction

SECTION 11: Toxicological information

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

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

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation:

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

May cause additional health effects (see below).

Skin Contact:

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

Eye Contact:

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

Ingestion:

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

May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:

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

Toxicological Data

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

Acute Toxicity

| Treater Tollierey | | | |
|-------------------|-------------|---------|--|
| Name | Route | Species | Value |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| ETHYL ACETATE | Dermal | Rabbit | LD50 > 18,000 mg/kg |
| ETHYL ACETATE | Inhalation- | Rat | LC50 70.5 mg/l |
| | Vapor (4 | | |
| | hours) | | |
| ETHYL ACETATE | Ingestion | Rat | LD50 5,620 mg/kg |

ATE = acute toxicity estimate

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|--------------------------------------|-----------------|----------|
| <u> </u> | | |

Skin Corrosion/Irritation

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

Serious Eve Damage/Irritation

| Serious Lye Buniage in Hauton | | | | | |
|-------------------------------|---------|---------------|--|--|--|
| Name | Species | Value | | | |
| | | | | | |
| ETHYL ACETATE | Rabbit | Mild irritant | | | |

Skin Sensitization

| Name | Species | Value |
|---------------|---------|----------------|
| ETHYL ACETATE | Guinea | Not classified |
| | pig | |

Respiratory Sensitization

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

Germ Cell Mutagenicity

| Name | Route | Value |
|---------------|----------|---------------|
| ETHYL ACETATE | In Vitro | Not mutagenic |
| ETHYL ACETATE | In vivo | Not mutagenic |

Carcinogenicity

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

Reproductive Toxicity

Reproductive and/or Developmental Effects

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

Target Organ(s)

Specific Target Organ Toxicity - single exposure

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

Specific Target Organ Toxicity - repeated exposure

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

Aspiration Hazard

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

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

SECTION 12: Ecological information

Ecotoxicological information

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

Chemical fate information

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

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Incinerate in a permitted waste incineration facility.

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

SECTION 14: Transport Information

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

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:

Physical Hazards

Flammable (gases, aerosols, liquids, or solids)

Health Hazards

Specific target organ toxicity (single or repeated exposure)

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

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

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

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated

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by the FDA.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

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

SECTION 16: Other information

NFPA Hazard Classification

Health: 1 Flammability: 3 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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