

## **SAFETY DATA SHEETS**

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

075810973

**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).**

075794011 075809298 075810957 075810981 075810999 075811005 075811013 075811021 075811070 075811088  
075811096 075811104



## Material Safety Data Sheet

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**PRODUCT NAME:** 3M™ ESPE™ PHOTAC-FIL QUICK APLICAP

**MANUFACTURER:** 3M

**DIVISION:** 3M ESPE Dental Products

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

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

**Issue Date:** 09/27/12

**Supersedes Date:** 02/11/10

**Document Group:** 16-2809-8

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**This product is a kit or a multipart product which consists of multiple, independently packaged components. An MSDS for each of these components is included. Please do not separate the component MSDSs from this cover page. The document numbers of the MSDSs for components of this product are:**

16-2808-0, 16-2807-2

### Revision Changes:

Kit: Component document group number(s) was modified.

Page Heading: Product name was modified.

Kit: Product name was modified.

Kit: ID Number(s) was modified.

Section 1: Manufacturer name was added.

Section 16: Disclaimer (first paragraph) was added.

Section 16: Disclaimer (second paragraph) was added.

Section 16: Web address was added.

Section 1: Address was added.  
Copyright was added.  
Company logo was added.  
Telephone header was added.  
Company Telephone was added.  
Section 1: Emergency phone information was added.  
Company Logo was deleted.  
Copyright was deleted.  
Kit: Manufacturer's name was deleted.  
Kit: Emergency phone information was deleted.  
Kit: Disclaimer (first paragraph) was deleted.  
Kit: Disclaimer (second paragraph) was deleted.  
Kit: Address line 1 was deleted.  
Kit: Address line 2 was deleted.

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 3M™ ESPET™ PHOTAC FIL™ QUICK APLICAP LIQUID

**MANUFACTURER:** 3M

**DIVISION:** 3M ESPE Dental Products

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

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

**Issue Date:** 11/22/12

**Supersedes Date:** 09/25/12

**Document Group:** 16-2807-2

**Product Use:**

Intended Use: Dental Product  
Limitations on Use: For use only by dental professionals  
Specific Use: Dental Restorative

### SECTION 2: INGREDIENTS

| <u>Ingredient</u>                            | <u>C.A.S. No.</u> | <u>% by Wt</u> |
|----------------------------------------------|-------------------|----------------|
| COPOLYMER OF ACRYLIC ACID-MALEIC ACID        | 29132-58-9        | 30 - 50        |
| 2-HYDROXYETHYL METHACRYLATE                  | 868-77-9          | 25 - 50        |
| WATER                                        | 7732-18-5         | 20 - 30        |
| MONO- AND DI- HEMA PHOSPHATE, MAGNESIUM SALT | None              | 5 - 15         |
| DIURETHANE DIMETHACRYLATE                    | 72869-86-4        | 3 - 10         |

### SECTION 3: HAZARDS IDENTIFICATION

#### 3.1 EMERGENCY OVERVIEW

**Specific Physical Form:** Liquid

**Odor, Color, Grade:** Clear to slightly yellow in color, slight acrylate odor

**General Physical Form:** Liquid

**Immediate health, physical, and environmental hazards:** May cause severe eye irritation. May cause allergic skin reaction. Contains a chemical or chemicals which can cause cancer. This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the

potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

### 3.2 POTENTIAL HEALTH EFFECTS

**Eye Contact:**

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

**Skin Contact:**

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

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

**Inhalation:**

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

**Ingestion:**

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

Contains a chemical or chemicals which can cause cancer.

## SECTION 4: FIRST AID MEASURES

### 4.1 FIRST AID PROCEDURES

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

**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

**Skin Contact:** Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

**Inhalation:** Remove person to fresh air. If signs/symptoms develop, get medical attention.

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

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1 FLAMMABLE PROPERTIES

|                          |                   |
|--------------------------|-------------------|
| Autoignition temperature | No Data Available |
| Flash Point              | No flash point    |
| Flammable Limits(LEL)    | Not Applicable    |
| Flammable Limits(UEL)    | Not Applicable    |

### 5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

### 5.3 PROTECTION OF FIRE FIGHTERS

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

**Unusual Fire and Explosion Hazards:** Not applicable.

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

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air.

### 6.2. Environmental precautions

Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

#### Clean-up methods

Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill. Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Clean up residue with water.

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

## SECTION 7: HANDLING AND STORAGE

### 7.1 HANDLING

Avoid eye contact. Avoid skin contact. A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. Acrylates may penetrate commonly-used gloves. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove.

### 7.2 STORAGE

Store away from heat. Store out of direct sunlight.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Not applicable.

### 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### 8.2.1 Eye/Face Protection

Avoid eye contact.

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

#### 8.2.2 Skin Protection

Avoid skin contact. See Sect. 7.1 for more information on skin protection.

#### 8.2.3 Respiratory Protection

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

#### 8.2.4 Prevention of Swallowing

Not applicable. Do not ingest.

### 8.3 EXPOSURE GUIDELINES

None Established

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

|                                |                                                         |
|--------------------------------|---------------------------------------------------------|
| Specific Physical Form:        | Liquid                                                  |
| Odor, Color, Grade:            | Clear to slightly yellow in color, slight acrylate odor |
| General Physical Form:         | Liquid                                                  |
| Autoignition temperature       | No Data Available                                       |
| Flash Point                    | No flash point                                          |
| Flammable Limits(LEL)          | Not Applicable                                          |
| Flammable Limits(UEL)          | Not Applicable                                          |
| Boiling Point                  | No Data Available                                       |
| Vapor Density                  | No Data Available                                       |
| Vapor Pressure                 | No Data Available                                       |
| Specific Gravity               | >=1.0 [Ref Std: WATER=1]                                |
| pH                             | No Data Available                                       |
| Melting point                  | No Data Available                                       |
| Solubility in Water            | Complete                                                |
| Evaporation rate               | No Data Available                                       |
| Volatile Organic Compounds     | No Data Available                                       |
| Kow - Oct/Water partition coef | No Data Available                                       |
| Percent volatile               | No Data Available                                       |
| VOC Less H2O & Exempt Solvents | No Data Available                                       |
| Viscosity                      | Not Applicable                                          |

## SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

#### Materials and Conditions to Avoid:

##### 10.1 Conditions to avoid

Heat

##### 10.2 Materials to avoid

None known

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

### Hazardous Decomposition or By-Products

#### Substance

#### Condition

Carbon monoxide  
Carbon dioxide  
Irritant Vapors or Gases

During Combustion  
During Combustion  
During Combustion

## SECTION 11: TOXICOLOGICAL INFORMATION

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

## SECTION 12: ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

Not determined.

### CHEMICAL FATE INFORMATION

Not determined.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Incinerate in an industrial or commercial facility in the presence of a combustible material. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

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

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

## SECTION 14: TRANSPORT INFORMATION

LE-FSFD-6100-1

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

## SECTION 15: REGULATORY INFORMATION

### US FEDERAL REGULATIONS

Contact 3M for more information.

### 311/312 Hazard Categories:

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

### STATE REGULATIONS

Contact 3M for more information.

### CHEMICAL INVENTORIES

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. This material contains one or more substances not listed on the



TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

## INTERNATIONAL REGULATIONS

Contact 3M for more information.

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

## SECTION 16: OTHER INFORMATION

### NFPA Hazard Classification

Health: 2 Flammability: 1 Reactivity: 0 Special Hazards: None

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

### Revision Changes:

Section 9: Vapor density value was modified.

Section 9: Vapor pressure value was modified.

Section 9: Boiling point information was modified.

Section 9: Property description for optional properties was modified.

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 16-2809-8 | <b>Version Number:</b>  | 7.04     |
| <b>Issue Date:</b>     | 02/09/17  | <b>Supersedes Date:</b> | 04/15/15 |

### Product identifier

3M™ ESPE™ PHOTAC-FIL QUICK APLICAP

### ID Number(s):

70-2011-0115-4, 70-2011-0116-2, 70-2011-0118-8, 70-2011-0119-6, 70-2011-0120-4, 70-2011-0121-2, 70-2011-0122-0, 70-2011-0123-8, 70-2011-0124-6, 70-2011-0415-8, 70-2011-0425-7, 70-2011-0426-5, 70-2011-0427-3, 70-2011-0428-1, 70-2011-0429-9, 70-2011-0430-7, 70-2011-0431-5, 70-2011-0432-3, 70-2011-4136-6, 70-2011-4137-4, 70-2011-4138-2, 70-2011-4354-5, 70-2011-4355-2, 70-2011-4356-0, 70-2011-4357-8, 70-2011-4358-6, 70-2011-4359-4, 70-2011-4360-2, 70-2011-4361-0, 70-2011-4362-8, 70-2011-4363-6, 70-2011-4364-4, 70-2011-4365-1, 70-2011-4529-2

### Recommended use

Dental Product, Restorative

### Restrictions on use

For use only by dental professionals

### 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)

### Emergency telephone number

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

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

16-2808-0, 16-2807-2

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**Document Group:** 16-2807-2

**Issue Date:** 01/18/18

**Version Number:** 8.01

**Supersedes Date:** 02/25/16

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ ESPE™ PHOTAC FIL™ QUICK APLICAP LIQUID

#### Product Identification Numbers

LE-FSFD-6100-1

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

##### Recommended use

Dental Product, Restorative

##### 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

Serious Eye Damage/Irritation: Category 2A.

Skin Corrosion/Irritation: Category 2.

Skin Sensitizer: Category 1.

Carcinogenicity: Category 2.

#### 2.2. Label elements

**Signal word**

**Warning****Symbols**

Exclamation mark | Health Hazard |

**Pictograms****Hazard Statements**

Causes serious eye irritation.

Causes skin irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

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

Obtain special instructions before use.

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

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

Wear protective gloves and eye/face protection.

Wash thoroughly after handling.

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

**Response:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

IF exposed or concerned: Get medical advice/attention.

**Disposal:**

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

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

| Ingredient                                      | C.A.S. No. | % by Wt                |
|-------------------------------------------------|------------|------------------------|
| 2-HYDROXYETHYL METHACRYLATE                     | 868-77-9   | 25 - 50 Trade Secret * |
| COPOLYMER OF ACRYLIC ACID-MALEIC ACID           | 29132-58-9 | 30 - 50 Trade Secret * |
| WATER                                           | 7732-18-5  | 20 - 30 Trade Secret * |
| MONO- AND DI- HEMA PHOSPHATE,<br>MAGNESIUM SALT | None       | 5 - 15 Trade Secret *  |
| DIURETHANE DIMETHACRYLATE                       | 72869-86-4 | 3 - 10 Trade Secret *  |
| Phenol, 2-(1,1-dimethylethyl)-4-methoxy-        | 121-00-6   | < 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:**

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

**Eye Contact:**

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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

Use a fire fighting agent suitable for the surrounding fire.

### 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

Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not

remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with water. 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

A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. Acrylates may penetrate commonly-used gloves. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. 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. Avoid release to the environment. Wash contaminated clothing before reuse. Use personal protective equipment (gloves, respirators, etc.) as required.

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

Store away from heat.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use in a well-ventilated area.

#### 8.2.2. Personal protective equipment (PPE)

##### Eye/face protection

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

Safety Glasses with side shields

##### Skin/hand protection

See Section 7.1 for additional information on skin protection.

##### Respiratory protection

None required.

## SECTION 9: Physical and chemical properties

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

|                         |                                                         |
|-------------------------|---------------------------------------------------------|
| General Physical Form:  | Liquid                                                  |
| Specific Physical Form: | Liquid                                                  |
| Odor, Color, Grade:     | Clear to slightly yellow in color, slight acrylate odor |
| Odor threshold          | No Data Available                                       |

|                                         |                          |
|-----------------------------------------|--------------------------|
| pH                                      | No Data Available        |
| Melting point                           | No Data Available        |
| Boiling Point                           | No Data Available        |
| Flash Point                             | No flash point           |
| Evaporation rate                        | No Data Available        |
| Flammability (solid, gas)               | Not Applicable           |
| Flammable Limits(LEL)                   | Not Applicable           |
| Flammable Limits(UEL)                   | Not Applicable           |
| Vapor Pressure                          | No Data Available        |
| Vapor Density                           | No Data Available        |
| Specific Gravity                        | >=1.0 [Ref Std: WATER=1] |
| Solubility in Water                     | Complete                 |
| Solubility- non-water                   | No Data Available        |
| Partition coefficient: n-octanol/ water | No Data Available        |
| Autoignition temperature                | No Data Available        |
| Decomposition temperature               | No Data Available        |
| Viscosity                               | Not Applicable           |
| Molecular weight                        | Not Applicable           |
| Volatile Organic Compounds              | No Data Available        |
| Percent volatile                        | No Data Available        |
| VOC Less H2O & Exempt Solvents          | No Data Available        |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat

### 10.5. Incompatible materials

None known.

### 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:

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

##### Skin Contact:

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

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

##### Eye Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

##### Ingestion:

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

#### Additional Health Effects:

##### Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

| Ingredient                                      | CAS No.  | Class Description             | Regulation                                  |
|-------------------------------------------------|----------|-------------------------------|---------------------------------------------|
| Generic: Phenol, (1,1-dimethylethyl)-4-methoxy- | 121-00-6 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Generic: Phenol, (1,1-dimethylethyl)-4-methoxy- | 121-00-6 | Anticipated human carcinogen  | National Toxicology Program Carcinogens     |

#### Toxicological Data

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

#### Acute Toxicity

| Name                                  | Route     | Species                | Value                                          |
|---------------------------------------|-----------|------------------------|------------------------------------------------|
| Overall product                       | Ingestion |                        | No data available; calculated ATE >5,000 mg/kg |
| COPOLYMER OF ACRYLIC ACID-MALEIC ACID | Ingestion | Rat                    | LD50 > 2,000 mg/kg                             |
| COPOLYMER OF ACRYLIC ACID-MALEIC ACID | Dermal    | similar health hazards | LD50 Not available                             |
| 2-HYDROXYETHYL METHACRYLATE           | Dermal    | Rabbit                 | LD50 > 5,000 mg/kg                             |
| 2-HYDROXYETHYL METHACRYLATE           | Ingestion | Rat                    | LD50 5,564 mg/kg                               |
| DIURETHANE DIMETHACRYLATE             | Dermal    | Professional judgement | LD50 estimated to be > 5,000 mg/kg             |
| DIURETHANE DIMETHACRYLATE             | Ingestion | Rat                    | LD50 > 5,000 mg/kg                             |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                        | Species | Value              |
|-----------------------------|---------|--------------------|
| 2-HYDROXYETHYL METHACRYLATE | Rabbit  | Minimal irritation |

**Serious Eye Damage/Irritation**

| Name                        | Species | Value             |
|-----------------------------|---------|-------------------|
| 2-HYDROXYETHYL METHACRYLATE | Rabbit  | Moderate irritant |

**Skin Sensitization**

| Name                        | Species          | Value       |
|-----------------------------|------------------|-------------|
| 2-HYDROXYETHYL METHACRYLATE | Human and animal | Sensitizing |
| DIURETHANE DIMETHACRYLATE   | Guinea pig       | Sensitizing |

**Respiratory Sensitization**

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

**Germ Cell Mutagenicity**

| Name                        | Route    | Value                                                                        |
|-----------------------------|----------|------------------------------------------------------------------------------|
| 2-HYDROXYETHYL METHACRYLATE | In vivo  | Not mutagenic                                                                |
| 2-HYDROXYETHYL METHACRYLATE | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name                                     | Route     | Species                 | Value        |
|------------------------------------------|-----------|-------------------------|--------------|
| Phenol, 2-(1,1-dimethylethyl)-4-methoxy- | Ingestion | Multiple animal species | Carcinogenic |

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

| Name                        | Route     | Value                                  | Species | Test Result           | Exposure Duration              |
|-----------------------------|-----------|----------------------------------------|---------|-----------------------|--------------------------------|
| 2-HYDROXYETHYL METHACRYLATE | Ingestion | Not classified for female reproduction | Rat     | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| 2-HYDROXYETHYL METHACRYLATE | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 1,000 mg/kg/day | 49 days                        |
| 2-HYDROXYETHYL METHACRYLATE | Ingestion | Not classified for development         | Rat     | NOAEL 1,000 mg/kg/day | prematuring & 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**

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

**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.

**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                       |
|--------------------------------------|
| Carcinogenicity                      |
| Serious eye damage or eye irritation |
| Skin Corrosion or Irritation         |

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

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

Contact 3M for more information.

**15.4. International Regulations**

Contact 3M for more information.

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

**SECTION 16: Other information****NFPA Hazard Classification**

**Health:** 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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**Document Group:** 16-2808-0

**Issue Date:** 02/25/16

**Version Number:** 9.00

**Supersedes Date:** 02/10/15

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ ESPE™ PHOTAC-FIL™ QUICK APLICAP POWDER

#### Product Identification Numbers

LE-FSFD-6100-2

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

##### Recommended use

Dental Product, Restorative

##### 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.

**2.3. Hazards not otherwise classified**

None.

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

| <b>Ingredient</b>                                                                                                                      | <b>C.A.S. No.</b> | <b>% by Wt</b> |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------|
| Glass powder (65997-17-3), surface modified with 2-propenoic acid, 2 methyl-3-(trimethoxysilyl)propyl ester (2530-85-0), bulk material | None              | > 99           |
| N,N-DIMETHYLBENZOCAINE                                                                                                                 | 10287-53-3        | < 0.5          |

**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**

None known.

**Condition**

During Combustion

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

No special protective actions for fire-fighters are anticipated.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Use wet sweeping compound or water to avoid dusting. Sweep up. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid prolonged or repeated skin contact. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

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

No special storage requirements.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use in a well-ventilated area.

#### 8.2.2. Personal protective equipment (PPE)

##### Eye/face protection

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

##### Skin/hand protection

See Section 7.1 for additional information on skin protection.

##### Respiratory protection

None required.

## SECTION 9: Physical and chemical properties

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

|                                                |                                     |
|------------------------------------------------|-------------------------------------|
| <b>General Physical Form:</b>                  | Solid                               |
| <b>Specific Physical Form:</b>                 | Powder                              |
| <b>Odor, Color, Grade:</b>                     | Different colored, odorless powders |
| <b>Odor threshold</b>                          | <i>No Data Available</i>            |
| <b>pH</b>                                      | <i>Not Applicable</i>               |
| <b>Melting point</b>                           | <i>No Data Available</i>            |
| <b>Boiling Point</b>                           | <i>Not Applicable</i>               |
| <b>Flash Point</b>                             | No flash point                      |
| <b>Evaporation rate</b>                        | <i>Not Applicable</i>               |
| <b>Flammability (solid, gas)</b>               | Not Classified                      |
| <b>Flammable Limits(LEL)</b>                   | <i>Not Applicable</i>               |
| <b>Flammable Limits(UEL)</b>                   | <i>Not Applicable</i>               |
| <b>Vapor Pressure</b>                          | <i>Not Applicable</i>               |
| <b>Vapor Density</b>                           | <i>Not Applicable</i>               |
| <b>Specific Gravity</b>                        | $\geq 1.0$ [Ref Std: WATER=1]       |
| <b>Solubility in Water</b>                     | Nil                                 |
| <b>Solubility- non-water</b>                   | <i>No Data Available</i>            |
| <b>Partition coefficient: n-octanol/ water</b> | <i>No Data Available</i>            |
| <b>Autoignition temperature</b>                | <i>No Data Available</i>            |
| <b>Decomposition temperature</b>               | <i>No Data Available</i>            |
| <b>Viscosity</b>                               | <i>Not Applicable</i>               |
| <b>Molecular weight</b>                        | <i>Not Applicable</i>               |
| <b>Volatile Organic Compounds</b>              | <i>Not Applicable</i>               |
| <b>Percent volatile</b>                        | <i>Not Applicable</i>               |
| <b>VOC Less H2O &amp; Exempt Solvents</b>      | <i>Not Applicable</i>               |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

#### Substance

None known.

#### Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient



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

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

### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

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

##### Inhalation:

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

##### Skin Contact:

Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.

##### Eye Contact:

Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.

##### Ingestion:

May be harmful if swallowed.

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

#### Toxicological Data

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

#### Acute Toxicity

| Name                                                                                                                                    | Route     | Species | Value                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------|---------|-------------------------------------------------------|
| Overall product                                                                                                                         | Ingestion |         | No data available; calculated ATE 2,000 - 5,000 mg/kg |
| Glass powder (65997-17-3), surface modified with 2-propenoic acid, 2 methyl-.3-(trimethoxysilyl)propyl ester (2530-85-0), bulk material | Dermal    |         | LD50 estimated to be > 5,000 mg/kg                    |
| Glass powder (65997-17-3), surface modified with 2-propenoic acid, 2 methyl-.3-(trimethoxysilyl)propyl ester (2530-85-0), bulk material | Ingestion |         | LD50 estimated to be 2,000 - 5,000 mg/kg              |
| N,N-DIMETHYLBENZOCAINE                                                                                                                  | Dermal    | Rat     | LD50 > 2,000 mg/kg                                    |
| N,N-DIMETHYLBENZOCAINE                                                                                                                  | Ingestion | Rat     | LD50 > 2,000 mg/kg                                    |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                                                                                                                                    | Species                | Value                     |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|
| Glass powder (65997-17-3), surface modified with 2-propenoic acid, 2 methyl-.3-(trimethoxysilyl)propyl ester (2530-85-0), bulk material | Professional judgement | No significant irritation |
| N,N-DIMETHYLBENZOCAINE                                                                                                                  | Rabbit                 | No significant irritation |

**Serious Eye Damage/Irritation**

| Name                                                                                                                                   | Species                | Value                     |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|
| Glass powder (65997-17-3), surface modified with 2-propenoic acid, 2 methyl-3-(trimethoxysilyl)propyl ester (2530-85-0), bulk material | Professional judgement | No significant irritation |
| N,N-DIMETHYLBENZOCAINE                                                                                                                 | Rabbit                 | Mild irritant             |

**Skin Sensitization**

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

**Respiratory Sensitization**

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

**Germ Cell Mutagenicity**

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

**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**

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

**Specific Target Organ Toxicity - repeated exposure**

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

**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.

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

## SECTION 14: Transport Information

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

## SECTION 15: Regulatory information

### 15.1. US Federal Regulations

Contact 3M for more information.

#### 311/312 Hazard Categories:

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

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

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.

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