

# Safety Data Sheet

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Document Group:

16-2592-0

Version Number:

4.03

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04/15/15

**Supercedes Date:** 

09/14/12

#### Product identifier

3MTM ESPETM KETACTM CEM RADIOPAQUE PERMANENT GLASS IONOMER LUTING CEMENT

#### ID Number(s):

70-2011-0043-8, 70-2011-0046-1, 70-2011-0047-9, 70-2011-0339-0

# Recommended use

Dental Product, Dental luting cement

#### Restrictions on use

For use only by dental professionals

#### Supplier's details

MANUFACTURER:

31/4

DIVISION:

3M ESPE Dental Products

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:

16-2590-4, 26-9894-2

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3M <sup>TM</sup> ESPE <sup>TM</sup> KETAC <sup>TM</sup> CEM RADIOPAQUE PERMANENT GLASS IONOMER LUTING CEMENT 04/15/15
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In addition, information obtained from a database may not be as current as the information in the SDS available directly from 3M
3M USA SDSs are available at www.3M.com



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Document Group:

26-9894-2

Version Number:

4.00

Issue Date:

02/25/16

Supercedes Date:

11/14/14

# SECTION 1: Identification

#### 1.1. Product identifier

3M™ ESPE™ KETAC™ CEM RADIOPAQUE LIQUID

### **Product Identification Numbers**

LE-F100-0706-7, 70-2011-0045-3, 70-2011-0341-6

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

#### Recommended use

Dental Product, Part of a luting 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.

### 3MTM ESPETM KETACTM CEM RADIOPAQUE LIQUID 02/25/16

## Pictograms

Not applicable.

### 2.3. Hazards not otherwise classified

None.

# SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
WATER	7732-18-5	80 - 90 Trade Secret *
TARTARIC ACID	87-69-4	< 20 Trade Secret *

<sup>\*</sup>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. 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 Condition
During Combustion
During Combustion

## 5.3. Special protective actions for fire-fighters

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### 3MTM ESPETM KETACTM CEM RADIOPAQUE LIQUID 02/25/16

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

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. 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. 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

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

Respiratory protection is not 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: slight characteristic odor, colorless liquid

Odor thresholdNo Data AvailablepHNo Data AvailableMelting pointApproximately 0 °CBoiling PointApproximately 100 °CFlash PointNo flash point

Evaporation rate <=1 [Ref Std: BUOAC=1]

Flammability (solid, gas)

Flammable Limits(LEL)

Flammable Limits(UEL)

Not Applicable

Not Applicable

Vapor Pressure 16 mmHg [Ref Std: AIR=1]
Vapor Density <=1.0 [Ref Std: AIR=1]
Specific Gravity >=1.0 [Ref Std: WATER=1]

Specific Gravity

Solubility in Water

Complete

No. D. C. M. 1911

Solubility- non-water No Data Available Partition coefficient: n-octanol/ water No Data Available Autoignition temperature No Data Available Decomposition temperature No Data Available Viscosity No Data Available Molecular weight No Data Available Volatile Organic Compounds No Data Available Percent volatile No Data Available

Percent volatile

VOC Less H2O & Exempt Solvents

No Data Available

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

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.

#### 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:

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:

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 > 5,000 mg/kg
TARTARIC ACID	Dermal		LD50 estimated to be 2,000 - 5,000 mg/kg
TARTARIC ACID	Ingestion	Mouse	LD50 4,360 mg/kg

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

OKII COTTOSIOMITTALION						
	Name	Species	Value	١		
			<u> </u>	ĺ		
	Overall product	Rabbit	Minimal irritation	ŧ		

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

## Serious Eye Damage/Irritation

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

### 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. Empty and clean product containers may be disposed as non-hazardous waste. Consult your specific regulations and service providers to determine available options and requirements.

EPA Hazardous Waste Number (RCRA): Not regulated

## **SECTION 14: Transport Information**

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

## **SECTION 15: Regulatory information**

## 15.1. US Federal Regulations

Contact 3M for more information.

### 311/312 Hazard Categories:

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

## 15.2. State Regulations

Contact 3M for more information.

#### 15.3. Chemical Inventories

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

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

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

Contact 3M for more information.

## 15.4. International Regulations

Contact 3M for more information.

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

## **SECTION 16: Other information**

## NFPA Hazard Classification

Health: 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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