Safety Data Sheet

Document Group:	16-2762-9	**Version Number:**	4.02
Issue Date:	02/22/16	**Supercedes Date:**	04/15/15

Product identifier
PROTEMP II TEMPORARY

ID Number(s):

70-2011-0056-0, 70-2011-0057-8, 70-2011-0058-6, 70-2011-0059-4, 70-2011-0060-2, 70-2011-0061-0, 70-2011-0062-8, 70-2011-0063-6, 70-2011-1044-5, 70-2011-1323-3, 70-2011-1324-1

Recommended use
Dental Product, Temporary crown and bridge material.
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:

16-2761-1, 34-2713-5, 16-2626-6

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Safety Data Sheet

Document Group:	16-2626-6	**Version Number:**	11.01
Issue Date:	10/06/20	**Supercedes Date:**	01/22/20

SECTION 1: Identification

1.1. Product identifier
3M™ Protemp™ II Catalyst Paste Part II (46431)

Product Identification Numbers
LE-F100-1662-8, 70-2011-0064-4

1.2. Recommended use and restrictions on use

Recommended use
Dental Product, Temporary crown and bridge
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.

5% of the mixture consists of ingredients of unknown acute oral toxicity.
5% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
DIACETATE	19224-29-4	55 - 75 Trade Secret *
SUBSTITUTED SULFONAMIDE	83789-26-8	20 - 30 Trade Secret *
Synthetic amorphous silica, fumed, crystalline free	112945-52-5	5 - 10 Trade Secret *
(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl)(1-phenylenoxy-2,2'ethoxyethanediyl)bisacetate	None	1 - 7 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 you feel unwell, 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	Condition
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion

Irritant Vapors or Gases During Combustion

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice.

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.

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
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
SILICA, AMORPHOUS	112945-52-5	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	Sweet Plasticizer
Odor threshold	*No Data Available*
pH	*Not Applicable*
Melting point	*No Data Available*
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	*Not Applicable*
Vapor Density	*Not Applicable*
Density	*Not Applicable*
Specific Gravity	>=1 [*Ref Std:*WATER=1]
Solubility in Water	Nil
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*Not Applicable*
Autoignition temperature	*No Data Available*
Decomposition temperature	*No Data Available*
Viscosity	30,000 - 150,000 centipoise
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
None known.

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:
May be harmful in contact with skin.
Contact with the skin during product use is not expected to result in significant irritation.

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

Ingestion:
May be harmful if swallowed.
Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

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

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE2,000 - 5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE2,000 - 5,000 mg/kg
DIACETATE	Dermal	Professio	LD50 estimated to be 2,000 - 5,000 mg/kg

		nal judgeme nt	
DIACETATE	Ingestion	Rat	LD50 > 2,000 mg/kg
SUBSTITUTED SULFONAMIDE	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
SUBSTITUTED SULFONAMIDE	Ingestion	Rat	LD50 > 2,000 mg/kg
Synthetic amorphous silica, fumed, crystalline free	Dermal	Rabbit	LD50 > 5,000 mg/kg
Synthetic amorphous silica, fumed, crystalline free	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Synthetic amorphous silica, fumed, crystalline free	Ingestion	Rat	LD50 > 5,110 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
DIACETATE	In vitro data	No significant irritation
Synthetic amorphous silica, fumed, crystalline free	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
DIACETATE	In vitro data	No significant irritation
Synthetic amorphous silica, fumed, crystalline free	Rabbit	No significant irritation

Skin Sensitization

Name	Species	Value
DIACETATE	Mouse	Not classified
Synthetic amorphous silica, fumed, crystalline free	Human and animal	Not classified

Respiratory Sensitization

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

Germ Cell Mutagenicity

Name	Route	Value
DIACETATE	In Vitro	Not mutagenic
Synthetic amorphous silica, fumed, crystalline free	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Synthetic amorphous silica, fumed, crystalline free	Not Specified	Mouse	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Synthetic amorphous silica, fumed, crystalline free	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Synthetic amorphous silica, fumed, crystalline free	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Synthetic amorphous silica, fumed, crystalline free	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
Synthetic amorphous silica, fumed, crystalline free	Inhalation	respiratory system | silicosis	Not classified	Human	NOAEL Not available	occupational exposure

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

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

SECTION 12: Ecological information

Ecotoxicological information

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

Chemical fate information

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

SECTION 13: Disposal considerations

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

Dispose of 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

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.

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.

Document Group:	16-2626-6	**Version Number:**	11.01
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Safety Data Sheet

Document Group:	16-2761-1	**Version Number:**	6.01
Issue Date:	02/23/16	**Supercedes Date:**	04/14/15

SECTION 1: Identification

1.1. Product identifier
3M™ ESPE™ PROTEMP II BASE

Product Identification Numbers
LE-FSFD-4600-1

1.2. Recommended use and restrictions on use

Recommended use
Dental Product, Temporary crown and bridge.
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

Ingredient	C.A.S. No.	% by Wt
BISPHENOL A POLYETHYLENE GLYCOL DIETHER DIMETHACRYLATE (BISEMA6)	41637-38-1	50 - 70 Trade Secret *
Glass powder (65997-17-3), surface modified with 2-propenoic acid, 2 methyl-.3-(trimethoxysilyl)propyl ester (2530-85-0), bulk material	None	20 - 30 Trade Secret *
SILANE TREATED SILICA	68909-20-6	10 - 20 Trade Secret *
VINYL ETHER COPOLYMER	25154-85-2	1 - 5 Trade Secret *

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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

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

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

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

4.2. Most important symptoms and effects, both acute and delayed
See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required
Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media
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	Condition

Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Irritant Vapors or Gases	During Combustion

5.3. Special protective actions for fire-fighters
No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
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.

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
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
SILICA, AMORPHOUS	68909-20-6	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

General Physical Form:	Solid
Specific Physical Form:	Paste
Odor, Color, Grade:	Different colored pastes, slight acrylate odor
Odor threshold	*No Data Available*
pH	*No Data Available*
Melting point	*No Data Available*
Boiling Point	*Not Applicable*
Flash Point	Flash point > 93 °C (200 °F)
Evaporation rate	*Not Applicable*
Flammability (solid, gas)	Not Classified
Flammable Limits(LEL)	*Not Applicable*
Flammable Limits(UEL)	*Not Applicable*
Vapor Pressure	*Not Applicable*
Vapor Density	*Not Applicable*
Specific Gravity	Approximately 1 [*Ref Std:* WATER=1]
Solubility in Water	Nil
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	30,000 - 150,000 centipoise
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
None known.

10.6. Hazardous decomposition products

Substance	Condition
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

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

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

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

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

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

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

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
BISPHENOL A POLYETHYLENE GLYCOL DIETHER DIMETHACRYLATE (BISEMA6)	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
BISPHENOL A POLYETHYLENE GLYCOL DIETHER DIMETHACRYLATE (BISEMA6)	Ingestion	Rat	LD50 > 2,000 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
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
VINYL ETHER COPOLYMER	Dermal	Professional judgement	LD50 estimated to be 2,000 - 5,000 mg/kg
VINYL ETHER COPOLYMER	Ingestion	Rat	LD50 > 2,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Overall product	Rabbit	No significant irritation
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
SILANE TREATED SILICA	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
SILANE TREATED SILICA	Rabbit	No significant irritation

Skin Sensitization

Name	Species	Value
Overall product	Guinea pig	Not sensitizing
BISPHENOL A POLYETHYLENE GLYCOL DIETHER DIMETHACRYLATE (BISEMA6)	Guinea pig	Not sensitizing
SILANE TREATED SILICA	Human and animal	Not sensitizing

Respiratory Sensitization

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

Germ Cell Mutagenicity

Name	Route	Value
BISPHENOL A POLYETHYLENE GLYCOL DIETHER DIMETHACRYLATE (BISEMA6)	In Vitro	Not mutagenic
SILANE TREATED SILICA	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
SILANE TREATED SILICA	Not Specified	Mouse	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

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

Target Organ(s)

Specific Target Organ Toxicity - single exposure
For the component/components, either no data are currently available or the data are not sufficient for classification.

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
SILANE TREATED SILICA	Inhalation	respiratory system | silicosis	All data are negative	Human	NOAEL Not available	occupational exposure

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

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

SECTION 12: Ecological information

Ecotoxicological information

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

Chemical fate information

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

SECTION 13: Disposal considerations

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

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.

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.

California Proposition 65

Ingredient	C.A.S. No.	Classification
Toluene	108-88-3	Female reproductive toxin
Toluene	108-88-3	Developmental Toxin
Titanium Dioxide	13463-67-7	Carcinogen

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
WARNING: This product contains a chemical known to the State of California to cause cancer.

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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Safety Data Sheet

Document Group:	36-2™13-P	**Version Number:**	P.01
Issue Date:	10/0I/20	**Supercedes Date:**	01/22/20

SECTION 1: Identification

1.1. Product identifier
3M4 LEF 7DML4 TTCA7AOSN7 Laste Lart T

Product Identification Numbers
OD-5100-1II2-8

1.2. Recommended use and restrictions on use

Recommended use
Uental Lroduct, 7emporary crown and bridge
Restrictions on use
5or use only by dental professionals

1.3. Supplier's details

MANUFACTURER:	3M
DIVISION:	Fral Care Nolutions Uivision
ADDRESS:	3M Center, Nt. Laul, MH PP166-1000, q NA
Telephone:	1-kkk-3M x DOLN(1-kkk-3I6-3P™M)

1.4. Emergency telephone number
1-k00-3I6-3P™Mbr (IP1) ™9™IP01 (26 hours)

SECTION 2: Hazard identification

7his document has been prepared in accordance with the q.N FNx A x azard Communication Ntandard, which re9uires the inclusion of all Rnown hazards of the product or ingredients regardless of the potential risR 7he risRs of the hazards communicated in this document may vary depending on the potential for e%posure.

2.1. Hazard classification
Frganic Lero%ide: 7ype *.
NRin Nensitizer: Category 1B.

2.2. Label elements
Signal word
'arning

Symbols
D%clamation marRW

Pictograms

Hazard Statements
May cause an allergic sRin reaction.

Precautionary Statements

Prevention:
' ear protective gloves.
Contaminated worR clothing must not be allowed out of the worRplace.

Response:
IF IN NVIH: ' ash with plenty of soap and water.
If sRin irritation or rash occurs: * et medical advice/attention.
' ash contaminated clothing before reuse.

Disposal:
Uispose of contents/container in accordance with applicable local/regional/national/international regulations.

PG of the mi%ure consists of ingredients of unRnown acute oral to%icity.
PG of the mi%ure consists of ingredients of unRnown acute dermal to%icity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
UTACD7A7D	18226-28-6	I0 - k0 7rade Necret ;
OAq EF S OLDEF > TUD	10P-T6-k	20 - 2T:P 7rade Necret ;
(1-methylethylidene)bis(6,1-phenyleneo%y-2,1-ethanediyl)(1-phenyleno%y-2,2=etho%yethanediyl)bisacetate	Hone	1 - T7rade Necret ;
Nynthetic amorphous silica, fumed, crystalline-free	11286P-P2-P	1 - P 7rade Necret ;

; 7he specific chemical identity and/or e%act 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:
Eemove person to fresh air. If you feel unwell, get medical attention.

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

Eye Contact:
5lush with large amounts of water. Eemove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist,

get medical attention.

If Swallowed:
Einse mouth. Tf you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed
Nee Nection 11.1. Tnformation on to%icological effects.

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

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media
Tn case of fire: q se a fire fighting agent suitable for ordinary combustible material such as water or foam to e%tinguish.

5.2. Special hazards arising from the substance or mixture
Hone inherent in this product.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon mono%ide	Uuring Combustion
Carbon dio%ide	Uuring Combustion
Tritant [apors or * ases	Uuring Combustion

5.3. Special protective actions for fire-fighters
' ear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunRer coat and pants, bands around arms, waist and legs, face masR, and protective covering for e%posed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Dvacuate area. [entilate the area with fresh air. 5or large spill, or spills in confined spaces, provide mechanical ventilation to disperse or e%haust vapors, in accordance with good industrial hygiene practice. Eefer to other sections of this NUN for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective e9uipment.

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. Llace in a closed container approved for transportation by appropriate authorities. Clean up residue. Neal the container. Uispose 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
Uo not eat, drinR or smoRe when using this product. ' ash thoroughly after handling. Contaminated worR clothing should not be allowed out of the worRplace. ' ash contaminated clothing before reuse. Uo not get in eyes. A no-touch techni9ue is recommended. Tf sRin contact occurs, wash sRin with soap and water. Tf 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
Ntore away from heat.

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 e%posure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
NIOICA, AMF ELx F q N	11286P-P2-P	F Nx A	7' A:20 millions of particles/cu. ft.]7' A concentration:0.k mg/m3	

AC* Tx : American Conference of * overnmental Tndustrial x ygienists
ATx A : American Tndustrial x ygiene Association
CME* : Chemical Manufacturer=s Eecommended * uidelines
F Nx A : q nited Ntates Uepartment of Oabor - F ccupational Nafety and x ealth Administration
7' A: 7ime-' eighted-Average
N7DO: Nhort 7erm D%posure Oimit
CDIO: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls
q se in a well-ventilated area.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Nelect and use eye/face protection to prevent contact based on the results of an e%posure assessment. 7he following eye/face protection(s) are recommended:
Nafety * lasses with side shields

Skin/hand protection
Nee Nection ™1 for additional information on sRin protection.

Respiratory protection
Hone re9uired.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Nolid
Color	' hite
Specific Physical Form:	Laste
Odor	Nweet Llasticizer
Odor threshold	*No Data Available*
pH	*Not Applicable*
Melting point	*No Data Available*
Boiling Point	*Not Applicable*
Flash Point	Ho flash point
Evaporation rate	*Not Applicable*
Flammability (solid, gas)	Hot Classified
Flammable Limits(LEL)	*Not Applicable*

Flammable Limits(UEL)	*Not Applicable*
Vapor Pressure	*Not Applicable*
Vapor Density	*Not Applicable*
Density	*Not Applicable*
Specific Gravity	j | 1 K*Ref Std:*' A7DE| 1X
Solubility in Water	Hil
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*Not Applicable*
Autoignition temperature	*No Data Available*
Decomposition temperature	*No Data Available*
Viscosity	30,000 - 1P0,000 centipoise
Volatile Organic Compounds	*Not Applicable*
Percent volatile	*Not Applicable*
VOC Less H2O & Exempt Solvents	*Not Applicable*

SECTION 10: Stability and reactivity

10.1. Reactivity
7his material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability
Ntable.

10.3. Possibility of hazardous reactions
x azardous polymerization will not occur.

10.4. Conditions to avoid
x eat

10.5. Incompatible materials
Hone Rnown.

10.6. Hazardous decomposition products

Substance	Condition
Hone Rnown.	

Eefer to section P.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:
7his product may have a characteristic odor] however, no adverse health effects are anticipated.

Skin Contact:
May be harmful in contact with sRin.
Contact with the sRin during product use is not e%pected to result in significant irritation. Allergic NRin Eeaction (non-photo induced): Nigns/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:
Contact with the eyes during product use is not e%pected to result in significant irritation.

Ingestion:
May be harmful if swallowed.
* astrointestinal Tritation: Nigns/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
F verall product	Uermal		Ho data available] calculated A7D2,000 - P,000 mg/Rg
F verall product	Tngestion		Ho data available] calculated A7D2,000 - P,000 mg/Rg
UTACD7A7D	Uermal	Lrofessional Yidgement	OUP0 estimated to be 2,000 - P,000 mg/Rg
UTACD7A7D	Tngestion	Eat	OUP0 j 2,000 mg/Rg
OAq EF S O LDEF > TUD	Uermal		estimated to be j P,000 mg/Rg
OAq EF S O LDEF > TUD	Tnhalation-Uust/Mist		estimated to be j 12.P mg/l
OAq EF S O LDEF > TUD	Tngestion		estimated to be j P,000 mg/Rg
Nynthetic amorphous silica, fumed, crystalline-free	Uermal	Eabbit	OUP0 j P,000 mg/Rg
Nynthetic amorphous silica, fumed, crystalline-free	Tnhalation-Uust/Mist (6 hours)	Eat	OCP0 j 0.I81 mg/l
Nynthetic amorphous silica, fumed, crystalline-free	Tngestion	Eat	OUP0 j P,110 mg/Rg

A7D| acute to%icity estimate

Skin Corrosion/Irritation

Name	Species	Value
UTACD7A7D	Tn vitro data	Ho significant irritation
Nynthetic amorphous silica, fumed, crystalline-free	Eabbit	Ho significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
UTACD7A7D	Tn vitro data	Ho significant irritation
Nynthetic amorphous silica, fumed, crystalline-free	Eabbit	Ho significant irritation

Skin Sensitization

Name	Species	Value
UTACD7A7D	Mouse	Hot classified
OAqEFSOLDEF>TUD	* uinea pig	Nensitizing
Nynthetic amorphous silica, fumed, crystalline-free	x uman and animal	Hot classified

Respiratory Sensitization
5or the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
UTACD7A7D	Tn[itro	Hot mutagenic
Nynthetic amorphous silica, fumed, crystalline-free	Tn[itro	Hot mutagenic

Carcinogenicity

Name	Route	Species	Value
Nynthetic amorphous silica, fumed, crystalline-free	Hot Npecified	Mouse	Nome positive data e%ist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Nynthetic amorphous silica, fumed, crystalline-free	Tngestion	Hot classified for female reproduction	Eat	HF ADO P08 mg/Rg/day	1 generation
Nynthetic amorphous silica, fumed, crystalline-free	Tngestion	Hot classified for male reproduction	Eat	HF ADO 68™ mg/Rg/day	1 generation
Nynthetic amorphous silica, fumed, crystalline-free	Tngestion	Hot classified for development	Eat	HF ADO 1,3P0 mg/Rg/day	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure
5or 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
Nynthetic amorphous silica, fumed, crystalline-free	Tnhalation	respiratory system W silicosis	Hot classified	x uman	HF ADO Hot available	occupational e%posure

Aspiration Hazard
5or 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

Llease contact the address or phone number listed on the first page of the NUN for additional ecoto%icological information on this material and/or its components.

Chemical fate information

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

SECTION 13: Disposal considerations

13.1. Disposal methods
Uispose of contents/ container in accordance with the local/regional/national/international regulations.

Uispose 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): Hot regulated

SECTION 14: Transport Information

5or 7ransport Tnformation, please visit http://3M.com/7ransportinfo or call 1-k00-3I 6-3P™or I P1-™™™I P01.

SECTION 15: Regulatory information

15.1. US Federal Regulations
Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:

Physical Hazards
F rganic pero%ide

Health Hazards
Eespiratory or NRin Nensitization

15.2. State Regulations
Contact 3M for more information.

15.3. Chemical Inventories
7he components of this product are in compliance with the new substance notification re9uirements of CDLA.

7his material contains one or more substances not listed on the 7NCA Tnventory. Commercial use of this material is regulated by the 5UA.

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:** 1 **Special Hazards:** Hone

Hational 5ire Lrotection Association (H5LA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute e%posure to a material under conditions of fire, spill, or similar emergencies. x azard ratings are primarily based on the inherent physical and to%ic properties of the material but also include the to%ic properties of combustion or decomposition products that are Rnown to be generated in significant 9uantities.

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UTNCOATMDE: 7he information in this Nafety Uata Nheet (NUN) is believed to be correct as of the date issued. 3M MAVDN HF ' AEEAH7TDN, D>LEDNNDU F E TMLOTDU, THCOq UTH* , Bq 7 HF 7 OTMT7DU 7F , AHS TMLOTDU ' AEEAH7S F5 MDECx AH7ABTOT7S F E 5T7HDNN5F E A LAE7TCq OAE Lq ELF ND F E CF q END F5 LDE5F EMAHCD F E q NA* D F5 7EAUD. q ser is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user=s method of use or application. * iven the variety of factors that can affect the use and application of a 3M product, some of which are uni9uely within the user=s Rnowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user=s method of use or application.

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