



## Safety Data Sheet

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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Filtek™ One Bulk Fill Restorative

#### Product Identification Numbers

70-2014-0467-3, 70-2014-0468-1, 70-2014-0469-9, 70-2014-0470-7, 70-2014-0471-5, 70-2014-0472-3, 70-2014-0473-1, 70-2014-0474-9, 70-2014-0475-6, 70-2014-0476-4, 70-2014-0477-2, 70-2014-0478-0, 70-2014-0481-4, 70-2014-0482-2, 70-2014-0483-0, 70-2014-0484-8, 70-2014-0485-5, 70-2014-0486-3, 70-2014-0487-1, 70-2014-0488-9, 70-2014-0489-7, 70-2014-0490-5, 70-2014-0491-3, 70-2014-0492-1, 70-2014-0493-9, 70-2014-0494-7, 70-2014-0495-4, 70-2014-0496-2, 70-2014-0497-0, 70-2014-0498-8, 70-2014-0499-6, 70-2014-0500-1, 70-2014-0501-9, 70-2014-0502-7, 70-2014-0506-8, 70-2014-0508-4, 70-2014-0639-7, 70-2014-1143-9, 70-2014-1144-7, 70-2014-1145-4, 70-2014-1146-2, 70-2014-1147-0, 70-2014-1148-8, 70-2014-1149-6, 70-2014-1150-4, 70-2014-1151-2, 70-2014-1152-0, 70-2014-1153-8, 70-2014-1154-6, 70-2014-1663-6, 70-2014-1664-4, 70-2014-1665-1, 70-2014-1666-9, 70-2014-1667-7, 70-2014-1668-5, 70-2014-1669-3, 70-2014-1670-1, 70-2014-1671-9, 70-2014-1672-7, 70-2014-1673-5, 70-2014-1674-3, 70-2014-1677-6, 70-2014-1678-4, 70-2014-1679-2, 70-2014-1680-0, 70-2014-1681-8, 70-2014-1682-6, 70-2014-1683-4, 70-2014-1684-2, 70-2014-1685-9, 70-2014-1686-7, 70-2014-1687-5, 70-2014-1688-3, 70-2014-1691-7, UU-0133-2923-8

7100109998, 7100109985, 7100109997, 7100109992, 7100110000, 7100109994, 7100109993, 7100109986, 7100109991, 7100110007, 7100109989, 7100109999, 7010343366, 7010389463, 7010304361, 7010389464, 7010343367, 7010389465, 7010317631, 7010389466, 7010343368, 7010296868, 7010317633, 7010389472, 7010389467, 7010343369, 7010389468, 7010317632, 7010389469, 7010343370, 7010304362, 7010389470, 7010343371, 7010389471, 7010343373, 7010317634, 7100135777, 7100141095, 7100141100, 7100141479, 7100141087, 7100141085, 7100141084, 7100141121, 7100141092, 7100141091, 7100141127, 7100141124, 7100141093, 7100239358, 7100239359, 7100239360, 7100239433, 7100239434, 7100239435, 7100239436, 7100239437, 7100239438, 7100239439, 7100239120, 7100239344, 7100239349, 7100239122, 7100239350, 7100239443, 7100239351, 7100239444, 7100239345, 7100239346, 7100239445, 7100239352, 7100239446, 7100239453, 7100239448, 5550002682

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

##### Recommended use

Dental Restorative, Restrictions on Use: For use only by dental professionals in approved indications

#### 1.3. Supplier's details

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

#### 1.4. Emergency telephone number

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

## SECTION 2: Hazard identification

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

### 2.1. Hazard classification

Skin Sensitizer: Category 1B.

Reproductive Toxicity: Category 1B.

### 2.2. Label elements

#### Signal word

Danger

#### Symbols

Exclamation mark | Health Hazard |

#### Pictograms



#### Hazard Statements

May cause an allergic skin reaction.

May damage fertility or the unborn child.

#### Precautionary Statements

#### Prevention:

Obtain special instructions before use.

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

Avoid breathing dust.

Wear protective gloves.

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

#### Response:

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

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

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

#### Disposal:

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

100% of the mixture consists of ingredients of unknown acute oral toxicity.

100% of the mixture consists of ingredients of unknown acute dermal toxicity.

## SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Silane Treated Ceramic	444758-98-9	60 - 70 Trade Secret *
Aromatic Urethane Dimethacrylate	1431303-59-1	10 - 20 Trade Secret *

Diurethane Dimethacrylate (UDMA)	72869-86-4	1 - 10 Trade Secret *
Silane Treated Silica	248596-91-0	1 - 10 Trade Secret *
Ytterbium Fluoride (YbF3)	13760-80-0	1 - 10 Trade Secret *
Water	7732-18-5	< 5 Trade Secret *
Silane Treated Zirconia	None	< 5 Trade Secret *
1,12-Dodecane Dimethacrylate (DDDMA)	72829-09-5	< 2.5 Trade Secret *
ETHYL 4-DIMETHYL AMINOBENZOATE (EDMAB)	10287-53-3	< 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:**

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

Allergic skin reaction (redness, swelling, blistering, and itching).

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

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

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

### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

### Hazardous Decomposition or By-Products

Substance

Carbon monoxide  
Carbon dioxide

Condition

During Combustion  
During Combustion

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

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

## SECTION 6: Accidental release measures

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

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

### 6.2. Environmental precautions

Avoid release to the environment.

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

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid breathing of dust created by cutting, sanding, grinding or machining. 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. Do not breathe dust/fume/gas/mist/vapors/spray. 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. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Do not get in eyes. Use personal protective equipment (gloves, respirators, etc.) as required.

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

Store away from heat. Store away from oxidizing agents.

## 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****Appearance**

Physical state  
Color

Solid  
White

**Specific Physical Form:**

Paste

**Odor**

Slight Acrylate

**Odor threshold**

*No Data Available*

**pH**

*Not Applicable*

**Melting point**

*No Data Available*

**Boiling Point**

*Not Applicable*

**Flash Point**

No flash point

**Evaporation rate**

*No Data Available*

**Flammability (solid, gas)**

Not Classified

**Flammable Limits(LEL)**

*Not Applicable*

**Flammable Limits(UEL)**

*Not Applicable*

**Vapor Pressure**

*Not Applicable*

**Vapor Density**

*Not Applicable*

**Density**

1.9 g/cm<sup>3</sup>

**Specific Gravity**

1.9 [Ref Std:WATER=1]

**Solubility in Water**

Negligible

**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**

*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**

Strong oxidizing agents

**10.6. Hazardous decomposition products****Substance****Condition**

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

**SECTION 11: Toxicological information**

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

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

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

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

##### Eye Contact:

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

##### Ingestion:

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

May cause additional health effects (see below).

#### Additional Health Effects:

##### Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

#### 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	Professional judgement	LD50 Not applicable
Overall product	Ingestion	Rat	LD50 > 2,000 mg/kg
Silane Treated Ceramic	Dermal		LD50 estimated to be > 5,000 mg/kg
Silane Treated Ceramic	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Aromatic Urethane Dimethacrylate	Dermal	Professional judgement	LD50 estimated to be 2,000 - 5,000 mg/kg
Aromatic Urethane Dimethacrylate	Ingestion	Rat	LD50 > 2,000 mg/kg
Silane Treated Zirconia	Dermal		LD50 estimated to be > 5,000 mg/kg
Silane Treated Zirconia	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Diurethane Dimethacrylate (UDMA)	Dermal	Rat	LD50 > 2,000 mg/kg

Diurethane Dimethacrylate (UDMA)	Ingestion	Rat	LD50 > 5,000 mg/kg
Ytterbium Fluoride (YbF3)	Dermal	Professional judgment	LD50 estimated to be > 5,000 mg/kg
Ytterbium Fluoride (YbF3)	Ingestion	Rat	LD50 > 5,000 mg/kg
1,12-Dodecane Dimethacrylate (DDDMA)	Dermal	similar compounds	LD50 > 2,000 mg/kg
1,12-Dodecane Dimethacrylate (DDDMA)	Ingestion	similar compounds	LD50 > 2,000 mg/kg
Silane Treated Silica	Dermal		LD50 estimated to be > 5,000 mg/kg
Silane Treated Silica	Ingestion		LD50 estimated to be > 5,000 mg/kg
ETHYL 4-DIMETHYL AMINO BENZOATE (EDMAB)	Dermal	Rat	LD50 > 2,000 mg/kg
ETHYL 4-DIMETHYL AMINO BENZOATE (EDMAB)	Ingestion	Rat	LD50 > 2,000 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
Silane Treated Ceramic	similar compounds	No significant irritation
Aromatic Urethane Dimethacrylate	In vitro data	No significant irritation
Silane Treated Zirconia	Rabbit	No significant irritation
Diurethane Dimethacrylate (UDMA)	Rabbit	No significant irritation
1,12-Dodecane Dimethacrylate (DDDMA)	similar compounds	No significant irritation
Silane Treated Silica	Professional judgment	No significant irritation
ETHYL 4-DIMETHYL AMINO BENZOATE (EDMAB)	Rabbit	No significant irritation

**Serious Eye Damage/Irritation**

Name	Species	Value
Silane Treated Ceramic	similar compounds	Mild irritant
Aromatic Urethane Dimethacrylate	In vitro data	No significant irritation
Silane Treated Zirconia	Rabbit	Mild irritant
Diurethane Dimethacrylate (UDMA)	Rabbit	No significant irritation
Ytterbium Fluoride (YbF3)	Professional judgment	Mild irritant
1,12-Dodecane Dimethacrylate (DDDMA)	similar compounds	Mild irritant
Silane Treated Silica	Professional judgment	No significant irritation
ETHYL 4-DIMETHYL AMINO BENZOATE (EDMAB)	Rabbit	No significant irritation

**Skin Sensitization**

Name	Species	Value
Silane Treated Ceramic	similar compound	Not classified

	ds	
Aromatic Urethane Dimethacrylate	Professional judgment	Sensitizing
Diurethane Dimethacrylate (UDMA)	Multiple animal species	Sensitizing
1,12-Dodecane Dimethacrylate (DDDMA)	similar compounds	Sensitizing
ETHYL 4-DIMETHYL AMINO BENZOATE (EDMAB)		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
Aromatic Urethane Dimethacrylate	In Vitro	Not mutagenic
Silane Treated Zirconia	In Vitro	Some positive data exist, but the data are not sufficient for classification
Diurethane Dimethacrylate (UDMA)	In Vitro	Not mutagenic
1,12-Dodecane Dimethacrylate (DDDMA)	In Vitro	Not mutagenic
ETHYL 4-DIMETHYL AMINO BENZOATE (EDMAB)	In vivo	Not mutagenic
ETHYL 4-DIMETHYL AMINO BENZOATE (EDMAB)	In Vitro	Some positive data exist, but the data are not sufficient for classification

### Carcinogenicity

Name	Route	Species	Value
Silane Treated Ceramic	Inhalation	similar compounds	Some positive data exist, but the data are not sufficient for classification
Silane Treated Zirconia	Inhalation	Multiple animal species	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
Diurethane Dimethacrylate (UDMA)	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	prematuring into lactation
Diurethane Dimethacrylate (UDMA)	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	56 days
Diurethane Dimethacrylate (UDMA)	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	prematuring into lactation
ETHYL 4-DIMETHYL AMINO BENZOATE (EDMAB)	Ingestion	Not classified for female reproduction	Rat	NOAEL 600 mg/kg/day	prematuring into lactation
ETHYL 4-DIMETHYL AMINO BENZOATE (EDMAB)	Ingestion	Not classified for development	Rat	NOAEL 50 mg/kg/day	prematuring into lactation
ETHYL 4-DIMETHYL AMINO BENZOATE (EDMAB)	Ingestion	Toxic to male reproduction	Rat	NOAEL 50 mg/kg/day	53 days

### 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
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						<b>Duration</b>
Silane Treated Ceramic	Inhalation	pulmonary fibrosis	Not classified	similar compounds	NOAEL Not available	
Silane Treated Zirconia	Inhalation	pulmonary fibrosis	Not classified	Multiple animal species	NOAEL Not available	
Silane Treated Zirconia	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
Diurethane Dimethacrylate (UDMA)	Ingestion	liver   kidney and/or bladder   heart   skin   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles   nervous system   eyes   respiratory system   vascular system	Not classified	Rat	NOAEL 1,000 mg/kg/day	56 days
ETHYL 4-DIMETHYL AMINOBENZOATE (EDMAB)	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 74 mg/kg/day	28 days
ETHYL 4-DIMETHYL AMINOBENZOATE (EDMAB)	Ingestion	liver   heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system	Not classified	Rat	NOAEL 900 mg/kg/day	28 days

**Aspiration Hazard**

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

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

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

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

**Chemical fate information**

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

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

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

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

Reproductive toxicity

Respiratory or Skin Sensitization

#### Additional TSCA Information

Components	CAS No	Additional Information
Silane Treated Silica	248596-91-0	Allowed use(s): Coating additive.

### 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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