

Safety Data Sheet

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 36-6354-9
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 1.10

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 04/21/23
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SECTION 1: Identification

1.1. Product identifier

3MTM FiltekTM 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, 70-2014-0470-7, 70-2014-042014-0474-9, 70-2014-0475-6, 70-2014-0476-4, 70-2014-0477-2, 70-2014-0478-0, 70-2014-0481-4, 70-2014-0482-2, 70-2014-0478-0, 70-2014-0481-4, 70-2014-0482-2, 70-2014-0481-4, 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, 70-2014-0489-2014-0490-5, 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, 70-2014-0501-9, 70-2014-0502-7, 70-2014-0500-2014-0508-4, 70-2014-0639-7, 70-2014-1143-9, 70-2014-1144-7, 70-2014-1145-4, 70-2014-1146-2, 70-2014-1147-0, 70-2014-1147-2014-1148-8, 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 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, 7100141092,7100239435, 7100239436, 7100239437, 7100239438, 7100239439, 7100239120, 7100239344, 7100239349, 7100239122, 7100239453, 7100239448

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: 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)

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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 |







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.

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 * |

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| Water | 7732-18-5 | < 5 Trade Secret * |
|--|------------|----------------------|
| Silane Treated Zirconia | None | < 5 Trade Secret * |
| 1,12-Dodecane Dimethycrylate (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 Solid Color White

Specific Physical Form: Paste

Slight Acrylate Odor Odor threshold No Data Available пH Not Applicable No Data Available **Melting point Boiling Point** Not Applicable **Flash Point** No flash point **Evaporation rate** No Data Available Flammability (solid, gas) Not Classified Flammable Limits(LEL) Not Applicable

Flammability (solid, gas)

Flammable Limits(LEL)

Flammable Limits(UEL)

Vapor Pressure

Not Applicable

Not Applicable

Not Applicable

Not Applicable

Not Applicable

Not Applicable

1.9 g/cm3

Specific Gravity 1.9 [Ref Std:WATER=1]

Solubility in Water Negligible

Solubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosityNo Data AvailableMolecular weightNot 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.

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.

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 | Professio | LD50 Not applicable |
| | | nal | |
| | | judgeme | |
| | | nt | |
| 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 | Professio | LD50 estimated to be 2,000 - 5,000 mg/kg |
| | | nal | |
| | | judgeme | |
| | | nt | |
| 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 | Professio | LD50 estimated to be > 5,000 mg/kg |
| | | nal | |
| | | judgeme | |
| | | nt | |

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| Diurethane Dimethacrylate (UDMA) | Ingestion | Rat | LD50 > 5,000 mg/kg |
|--|-----------|-----------------------------------|--|
| Ytterbium Fluoride (YbF3) | Dermal | Professio nal judgeme nt | LD50 estimated to be > 5,000 mg/kg |
| Ytterbium Fluoride (YbF3) | Ingestion | Rat | LD50 > 5,000 mg/kg |
| 1,12-Dodecane Dimethycrylate (DDDMA) | Dermal | Professio nal judgeme nt | LD50 estimated to be 2,000 - 5,000 mg/kg |
| 1,12-Dodecane Dimethycrylate (DDDMA) | Ingestion | similar compoun ds | LD50 2000-5000 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 AMINOBENZOATE (EDMAB) | Dermal | Rat | LD50 > 2,000 mg/kg |
| ETHYL 4-DIMETHYL AMINOBENZOATE (EDMAB) | Ingestion | Rat | LD50 > 2,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Skii Corrosion/irritation | 1 ~ . | T |
|--|-----------|---------------------------|
| Name | Species | Value |
| | | |
| Silane Treated Ceramic | similar | No significant irritation |
| | compoun | |
| | ds | |
| Aromatic Urethane Dimethacrylate | In vitro | No significant irritation |
| | data | |
| Silane Treated Zirconia | Rabbit | No significant irritation |
| Silane Treated Silica | Professio | No significant irritation |
| | nal | |
| | judgeme | |
| | nt | |
| ETHYL 4-DIMETHYL AMINOBENZOATE (EDMAB) | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|-----------------------------------|---------------------------|
| Silane Treated Ceramic | similar compoun ds | Mild irritant |
| Aromatic Urethane Dimethacrylate | In vitro data | No significant irritation |
| Silane Treated Zirconia | Rabbit | Mild irritant |
| Ytterbium Fluoride (YbF3) | Professio nal judgeme nt | Mild irritant |
| Silane Treated Silica | Professio nal judgeme nt | No significant irritation |
| ETHYL 4-DIMETHYL AMINOBENZOATE (EDMAB) | Rabbit | No significant irritation |

Skin Sensitization

| Name | Species | Value |
|----------------------------------|-----------|----------------|
| Silane Treated Ceramic | similar | Not classified |
| | compoun | |
| | ds | |
| Aromatic Urethane Dimethacrylate | Professio | Sensitizing |
| | nal | |
| | judgeme | |
| | nt | |
| Diurethane Dimethacrylate (UDMA) | Guinea | Sensitizing |
| | pig | |

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| ETHYL 4-DIMETHYL AMINOBENZOATE (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 |
| ETHYL 4-DIMETHYL AMINOBENZOATE (EDMAB) | In vivo | Not mutagenic |
| ETHYL 4-DIMETHYL AMINOBENZOATE (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 compoun ds | 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 |
|---|-----------|--|---------|------------------------|-----------------------------------|
| ETHYL 4-DIMETHYL AMINOBENZOATE (EDMAB) | Ingestion | Not classified for female reproduction | Rat | NOAEL 600 mg/kg/day | Duration premating into lactation |
| ETHYL 4-DIMETHYL AMINOBENZOATE (EDMAB) | Ingestion | Not classified for development | Rat | NOAEL 50 mg/kg/day | premating into lactation |
| ETHYL 4-DIMETHYL AMINOBENZOATE (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 Duration |
|--|------------|---|--|-------------------------------|------------------------|-----------------------|
| Silane Treated Ceramic | Inhalation | pulmonary fibrosis | Not classified | similar compoun ds | 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 |
| 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 | Not classified | Rat | NOAEL 900 mg/kg/day | 28 days |

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| system eyes kidney and/or bladder respiratory system vascular system | | |
|--|--|--|

Aspiration Hazard

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

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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

3MTM FiltekTM One Bulk Fill Restorative

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:

| EPCKA 511/512 Hazaru Ciassincations: | |
|--------------------------------------|--|
| Physical Hazards | |
| Not applicable | |

| Health Hazards | | |
|-----------------------|---------------|--|
| Reproductive toxicity | y | |
| Respiratory or Skin S | Sensitization | |

Additional TSCA Information

| 3MT | ^M Filtek TM | One l | Bulk | Fill | Restorative | |
|-----|-----------------------------------|-------|------|------|-------------|--|
|-----|-----------------------------------|-------|------|------|-------------|--|

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

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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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 05/13/22

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