

SAFETY DATA SHEETS

This SDS packet was issued with item:

071219021

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

071218841 071218858 071218866 071218874 071218882 071218890 071218940 071218999 071219005 071219013

071219039



Safety Data Sheet

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|------------------------|------------|-------------------------|---------------|
| Document group: | 40-9630-1 | Version number: | 1.00 |
| Issue Date: | 2023/04/25 | Supersedes Date: | Initial Issue |

This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations.

SECTION 1: Identification

1.1. Product identifier

3M™ Filtek™ Supreme Flowable

1.2. Recommended use and restrictions on use

Intended Use

Dental Product

Specific Use

Composite restorative material

Restrictions on use

Not applicable

1.3. Supplier's details

| | |
|-------------------|--|
| Company: | 3M Canada Company |
| Division: | Oral Care Solutions Division |
| Address: | 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1 |
| Telephone: | (800) 364-3577 |
| Website: | www.3M.ca |

1.4. Emergency telephone number

Medical Emergency Telephone:1-800-3M HELPS / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

SECTION 2: Hazard identification

This product is exempt from hazard classification according to Canadian Hazardous Products Regulations for the following reason(s):

Cosmetic, device, drug or food as defined in section 2 of the Food and Drugs Act;

2.1. Classification of the substance or mixture

Skin Sensitizer: Category 1.

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/fume/gas/mist/vapours/spray. 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. Take off contaminated clothing and wash it before reuse. IF exposed or concerned: Get medical advice/attention.

Storage:

Store locked up.

Disposal:

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

2.3. Other hazards

None known.

1% of the mixture consists of ingredients of unknown acute oral toxicity.

SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | C.A.S. No. | % by Wt | Common Name |
|--|-------------|------------------------|---|
| Silane Treated Ceramic | 444758-98-9 | 50 - 60 Trade Secret * | No Data Available |
| Substituted Dimethacrylate | 27689-12-9 | 15 - 25 Trade Secret * | No Data Available |
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | 1565-94-2 | 5 - 10 Trade Secret * | 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] ester |
| Silane Treated Silica | 248596-91-0 | 5 - 10 Trade Secret * | No Data Available |
| Triethylene Glycol Dimethacrylate (TEGDMA) | 109-16-0 | < 10 Trade Secret * | 2-Propenoic acid, 2-methyl-, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester |
| Poly[oxy(1-oxo-1,6-hexanediyl)], α,α' -(oxydi-2,1-ethanediyl)bis[ω -[[[2-(2- | 220182-22-9 | 1 - 5 Trade Secret * | No Data Available |

| | | | |
|---|------------|----------------------|---|
| methyl-1-oxo-2-propen-1-yl)oxy]ethyl]amino]carbonyl]oxy]- | | | |
| Ytterbium Fluoride (YbF ₃) | 13760-80-0 | 1 - 5 Trade Secret * | No Data Available |
| N,N-Dimethylbenzocaine | 10287-53-3 | < 0.3 Trade Secret * | Benzoic acid, 4-(dimethylamino)-, ethyl ester |
| Diphenyliodonium Hexafluorophosphate | 58109-40-3 | < 0.2 Trade Secret * | Iodonium, diphenyl-, hexafluorophosphate(1-) |

*The actual concentration of this ingredient 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:

No need for first aid is anticipated. 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 vapours, 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

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/vapours/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. Wash contaminated clothing before reuse. Do not get in eyes. Use personal protective equipment (gloves, respirators, etc.) as required.

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 |
|------------|------------|--------|---------------------|---------------------|
| FLUORIDES | 13760-80-0 | ACGIH | TWA(as F):2.5 mg/m3 | |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

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

| | |
|---|--------------------------|
| Physical state | Solid |
| Specific Physical Form: | Paste |
| Colour | Tooth |
| Odour | Slight Acrylate |
| Odour threshold | <i>No Data Available</i> |
| pH | <i>Not Applicable</i> |
| Melting point/Freezing point | <i>No Data Available</i> |
| Boiling point | <i>Not Applicable</i> |
| Flash Point | No flash point |
| Evaporation rate | <i>Not Applicable</i> |
| Flammability (solid, gas) | Not Classified |
| Flammable Limits(LEL) | <i>Not Applicable</i> |
| Flammable Limits(UEL) | <i>Not Applicable</i> |
| Vapour Pressure | <i>Not Applicable</i> |
| Vapour Density and/or Relative Vapour Density | <i>Not Applicable</i> |
| Density | 1.5 g/cm ³ |
| Relative density | 1.5 [Ref Std:WATER=1] |
| Water solubility | Negligible |
| Solubility- non-water | <i>No Data Available</i> |
| Partition coefficient: n-octanol/ water | <i>Not Applicable</i> |
| Autoignition temperature | <i>No Data Available</i> |
| Decomposition temperature | <i>No Data Available</i> |
| Viscosity/Kinematic Viscosity | <i>No Data Available</i> |
| Volatile Organic Compounds | <i>No Data Available</i> |
| Percent volatile | <i>No Data Available</i> |
| VOC Less H ₂ O & Exempt Solvents | <i>No Data Available</i> |
| Molecular weight | <i>No Data Available</i> |

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Substance

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:

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

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:

May be harmful if swallowed. 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 | Ingestion | | No data available; calculated ATE >2,000 - =5,000 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 |
| Substituted Dimethacrylate | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| Substituted Dimethacrylate | Ingestion | Rat | LD50 > 17,600 mg/kg |
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |

| | | | |
|--|-----------|-----------------------------------|------------------------------------|
| | | nal judgeme nt | |
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | Ingestion | Rat | LD50 > 11,700 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 |
| Triethylene Glycol Dimethacrylate (TEGDMA) | Dermal | Professio nal judgeme nt | LD50 estimated to be > 5,000 mg/kg |
| Triethylene Glycol Dimethacrylate (TEGDMA) | Ingestion | Rat | LD50 10,837 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 |
| N,N-Dimethylbenzocaine | Dermal | Rat | LD50 > 2,000 mg/kg |
| N,N-Dimethylbenzocaine | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Diphenyliodonium Hexafluorophosphate | Ingestion | Rat | LD50 32 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--|-----------------------------------|---------------------------|
| Silane Treated Ceramic | similar compoun ds | No significant irritation |
| Substituted Dimethacrylate | Rabbit | No significant irritation |
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | Rabbit | No significant irritation |
| Silane Treated Silica | Professio nal judgeme nt | No significant irritation |
| Triethylene Glycol Dimethacrylate (TEGDMA) | Guinea pig | Mild irritant |
| N,N-Dimethylbenzocaine | Rabbit | No significant irritation |
| Diphenyliodonium Hexafluorophosphate | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|-----------------------------------|---------------------------|
| Silane Treated Ceramic | similar compoun ds | Mild irritant |
| Substituted Dimethacrylate | Rabbit | Mild irritant |
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | In vitro data | No significant irritation |
| Silane Treated Silica | Professio nal judgeme nt | No significant irritation |
| Triethylene Glycol Dimethacrylate (TEGDMA) | Professio nal judgeme nt | Moderate irritant |
| Ytterbium Fluoride (YbF3) | Professio nal judgeme nt | Mild irritant |
| N,N-Dimethylbenzocaine | Rabbit | No significant irritation |
| Diphenyliodonium Hexafluorophosphate | Rabbit | Mild irritant |

Skin Sensitization

| Name | Species | Value |
|------|---------|-------|
|------|---------|-------|

| | | |
|--|-------------------|----------------|
| Silane Treated Ceramic | similar compounds | Not classified |
| Substituted Dimethacrylate | Guinea pig | Not classified |
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | Mouse | Not classified |
| Triethylene Glycol Dimethacrylate (TEGDMA) | Human and animal | Sensitizing |
| N,N-Dimethylbenzocaine | | 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 |
|--|----------|--|
| Substituted Dimethacrylate | In Vitro | Not mutagenic |
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | In Vitro | Not mutagenic |
| Triethylene Glycol Dimethacrylate (TEGDMA) | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| N,N-Dimethylbenzocaine | In vivo | Not mutagenic |
| N,N-Dimethylbenzocaine | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Diphenyliodonium Hexafluorophosphate | 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 |
| Triethylene Glycol Dimethacrylate (TEGDMA) | Dermal | Mouse | Not carcinogenic |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|--|-----------|--|---------|-----------------------|----------------------------|
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during gestation |
| Triethylene Glycol Dimethacrylate (TEGDMA) | Ingestion | Not classified for female reproduction | Mouse | NOAEL 1 mg/kg/day | 1 generation |
| Triethylene Glycol Dimethacrylate (TEGDMA) | Ingestion | Not classified for male reproduction | Mouse | NOAEL 1 mg/kg/day | 1 generation |
| Triethylene Glycol Dimethacrylate (TEGDMA) | Ingestion | Not classified for development | Mouse | NOAEL 1 mg/kg/day | 1 generation |
| N,N-Dimethylbenzocaine | Ingestion | Not classified for female reproduction | Rat | NOAEL 600 mg/kg/day | prematuring into lactation |
| N,N-Dimethylbenzocaine | Ingestion | Not classified for development | Rat | NOAEL 50 mg/kg/day | prematuring into lactation |
| N,N-Dimethylbenzocaine | Ingestion | Toxic to male reproduction | Rat | NOAEL 50 mg/kg/day | 53 days |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|--------------------------------------|------------|------------------------|----------------|---------------|----------------------|-------------------|
| Diphenyliodonium Hexafluorophosphate | Inhalation | respiratory irritation | Not classified | Not available | Irritation Equivocal | |

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 compounds | NOAEL Not available | |
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | Ingestion | endocrine system hematopoietic system liver heart skin 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 1,000 mg/kg/day | 90 days |
| Triethylene Glycol Dimethacrylate (TEGDMA) | Dermal | kidney and/or bladder blood | Not classified | Mouse | NOAEL 833 mg/kg/day | 78 weeks |
| N,N-Dimethylbenzocaine | Ingestion | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 74 mg/kg/day | 28 days |
| N,N-Dimethylbenzocaine | 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

No data available.

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.

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. Safety, health and environmental regulations/legislation specific for the substance or mixture

Global inventory status

Contact 3M for more information.

SECTION 16: Other information

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.

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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