



## Safety Data Sheet

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### Product identifier

3M Filtek Matrix Training Material Kit (6039)

### ID Number(s):

70-2014-2260-0

7100350593

### Recommended use

Dental Product, Matrix Kit

### Supplier's details

<b>MANUFACTURER:</b>	Solventum
<b>DIVISION:</b>	Dental Solutions

<b>ADDRESS:</b>	Solventum US LLC, 12930 IH 10 West, San Antonio, TX 78249
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<b>Telephone:</b>	1-855-423-6725
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### Emergency telephone number

+1 703-741-5970; (24/7)

**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:**

41-6513-0, 40-9630-1, 26-5783-1

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## Safety Data Sheet

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### SECTION 1: Identification

#### 1.1. Product identifier

Scotchbond™ Universal Plus L-Pop (41298, 41299, 41304, 41308)

#### Product Identification Numbers

LE-F100-2909-5, UU-0109-6160-3, UU-0109-6371-6, UU-0109-9076-8, UU-0110-0411-4, UU-0133-8144-5  
4100046860, 4100046861, 4100047328, 4100047615, 4100084896

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

##### Recommended use

Dental Product, For use only by dental professionals in approved indications

##### Restrictions on use

Dental Adhesive

#### 1.3. Supplier's details

<b>MANUFACTURER:</b>	Solventum
<b>DIVISION:</b>	Dental Solutions
<b>ADDRESS:</b>	Solventum US LLC, 12930 IH 10 West, San Antonio, TX 78249
<b>Telephone:</b>	1-855-423-6725

#### 1.4. Emergency telephone number

+1 703-741-5970; (24/7)

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Flammable Liquid: Category 2.

Skin Corrosion/Irritation: Category 2.

Serious Eye Damage/Irritation: Category 1.

Skin Sensitizer: Category 1.

Reproductive Toxicity: Category 1B.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Flame |Corrosion |Exclamation mark |Health Hazard |

### Pictograms



### Hazard Statements

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye damage.

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.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use explosion-proof electrical, ventilating and lighting equipment.

Use non-sparking tools.

Take action to prevent static discharges.

Avoid breathing vapor/dust/mist/spray.

Wash exposed skin thoroughly after handling.

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

Wear protective gloves, eye protection, and face protection.

#### Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF exposed or concerned: Immediately call a POISON CENTER or doctor.

If skin irritation or rash occurs: Get medical attention.

Take off contaminated clothing and wash it before reuse.

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

#### Storage:

Store in a well-ventilated place. Keep cool.

Store locked up.

#### Disposal:

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

### 2.3. Hazards not otherwise classified

May cause chemical gastrointestinal burns.

12% of the mixture consists of ingredients of unknown acute oral toxicity.

12% of the mixture consists of ingredients of unknown acute dermal toxicity.

**SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	2305048-54-6	15 - 40 Trade Secret *
2-HYDROXYETHYL METHACRYLATE	868-77-9	10 - 30 Trade Secret *
2-Propenoic acid, 2-methyl-, reaction products with 1,10-decanediol and phosphorus oxide (P2O5)	1207736-18-2	10 - 30 Trade Secret *
2-Propenoic acid, 2-methyl-, 3-(triethoxysilyl)propyl ester, reaction products with silica and 3-(triethoxysilyl)-1-propanamine	2680625-03-8	5 - 15 Trade Secret *
ETHANOL	64-17-5	5 - 15 Trade Secret *
WATER	7732-18-5	5 - 15 Trade Secret *
Synthetic amorphous silica, fumed, crystalline-free	112945-52-5	< 10 Trade Secret *
METHACRYLIC ACID, 3-(TRIETHOXSILYL)PROPYL ESTER	21142-29-0	< 5 Trade Secret *
CAMPHORQUINONE	10373-78-1	< 2 Trade Secret *
COPOLYMER OF ACRYLIC AND ITACONIC ACID	25948-33-8	< 2 Trade Secret *
N,N-DIMETHYLBENZOCAINE	10287-53-3	0.5 - 1.5 Trade Secret *
(3-AMINOPROPYL)TRIETHOXSILANE	919-30-2	< 0.5 Trade Secret *
DIETHYLENE GLYCOL DIMETHACRYLATE	2358-84-1	< 0.5 Trade Secret *
Acetic acid, copper(2+) salt, monohydrate	6046-93-1	< 0.1 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:**

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

**If Swallowed:**

Rinse mouth. Do not induce vomiting. Get immediate medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

Allergic skin reaction (redness, swelling, blistering, and itching). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

**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 flammable liquids such as dry chemical or carbon dioxide to extinguish.

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

Closed containers exposed to heat from fire may build pressure and explode.

**Hazardous Decomposition or By-Products****Substance**

Formaldehyde  
Carbon monoxide  
Carbon dioxide  
Irritant Vapors or Gases  
Oxides of Nitrogen

**Condition**

During Combustion  
During Combustion  
During Combustion  
During Combustion  
During Combustion

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

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. 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. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

**6.2. Environmental precautions**

Avoid release to the environment.

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

Contain spill. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with detergent and water. 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharge. 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 in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from oxidizing agents.

**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, including natural diatomaceous earth	112945-52-5	OSHA	TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m <sup>3</sup>	
Copper, dusts and mists, as Cu	6046-93-1	ACGIH	TWA(as Cu, fume):0.2 mg/m <sup>3</sup> ;TWA(as Cu dust or mist):1 mg/m <sup>3</sup>	
ETHANOL	64-17-5	ACGIH	STEL:1000 ppm	A3: Confirmed animal carcin.
ETHANOL	64-17-5	OSHA	TWA:1900 mg/m <sup>3</sup> (1000 ppm)	

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**

Physical state	Liquid
Specific Physical Form:	Viscous Liquid

Color	Yellow
Odor	Moderate Alcohol
Odor threshold	No Data Available
pH	Not Applicable
Melting point/Freezing point	No Data Available
Boiling point/Initial boiling point/Boiling range	> 78 °C
Flash Point	Approximately 21 °C [Test Method: Closed Cup]
Evaporation rate	No Data Available
Flammability	Flammable Liquid: Category 2.
Flammable Limits(LEL)	No Data Available
Flammable Limits(UEL)	No Data Available
Vapor Pressure	No Data Available
Relative Vapor Density	No Data Available
Density	Approximately 1.1 g/cm <sup>3</sup>
Relative Density	Approximately 1.1
Water solubility	Appreciable
Solubility- non-water	No Data Available
Partition coefficient: n-octanol/ water	No Data Available
Autoignition temperature	No Data Available
Decomposition temperature	No Data Available
Kinematic Viscosity	Not Applicable
Volatile Organic Compounds	No Data Available
Percent volatile	No Data Available
VOC Less H <sub>2</sub> O & Exempt Solvents	No Data Available
Molecular weight	No Data Available

Particle Characteristics	Not Applicable
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

#### Substance

None known.

#### Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

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

### 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:

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.  
Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### Eye Contact:

Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

#### Ingestion:

Gastrointestinal Corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain; nausea; vomiting; and diarrhea; blood in the feces and/or vomitus may also be seen.

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.

#### Additional Information:

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

#### 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
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Ingestion	Rat	LD50 > 2,000 mg/kg

2-HYDROXYETHYL METHACRYLATE	Dermal	Rabbit	LD50 > 5,000 mg/kg
2-HYDROXYETHYL METHACRYLATE	Ingestion	Rat	LD50 5,564 mg/kg
ETHANOL	Dermal	Rabbit	LD50 > 15,800 mg/kg
ETHANOL	Inhalation-Vapor (4 hours)	Rat	LC50 124.7 mg/l
ETHANOL	Ingestion	Rat	LD50 17,800 mg/kg
2-Propenoic acid, 2-methyl-, reaction products with 1,10-decanediol and phosphorus oxide (P2O5)	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
2-Propenoic acid, 2-methyl-, reaction products with 1,10-decanediol and phosphorus oxide (P2O5)	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
METHACRYLIC ACID, 3-(TRIETHOXSILYL)PROPYL ESTER	Dermal	Rat	LD50 > 2,000 mg/kg
METHACRYLIC ACID, 3-(TRIETHOXSILYL)PROPYL ESTER	Ingestion	Rat	LD50 > 5,000 mg/kg
CAMPHORQUINONE	Dermal	Professional judgement	LD50 estimated to be 2,000 - 5,000 mg/kg
CAMPHORQUINONE	Ingestion	Rat	LD50 > 2,000 mg/kg
COPOLYMER OF ACRYLIC AND ITACONIC ACID	Ingestion	Rat	LD50 > 5,000 mg/kg
COPOLYMER OF ACRYLIC AND ITACONIC ACID	Dermal	similar health hazards	LD50 estimated to be > 5,000 mg/kg
N,N-DIMETHYLBENZOCAINE	Dermal	Rat	LD50 > 2,000 mg/kg
N,N-DIMETHYLBENZOCAINE	Ingestion	Rat	LD50 > 2,000 mg/kg
DIETHYLENE GLYCOL DIMETHACRYLATE	Dermal	similar compounds	LD50 > 2,000 mg/kg
DIETHYLENE GLYCOL DIMETHACRYLATE	Ingestion	similar compounds	LD50 Not Available
(3-AMINOPROPYL)TRIETHOXSILANE	Dermal	Rabbit	LD50 4,076 mg/kg
(3-AMINOPROPYL)TRIETHOXSILANE	Ingestion	Rat	LD50 1,570 mg/kg
Acetic acid, copper(2+) salt, monohydrate	Dermal	Rat	LD50 > 2,000 mg/kg
Acetic acid, copper(2+) salt, monohydrate	Ingestion	Rat	LD50 > 300, < 2000 mg/kg

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

Name	Species	Value
Overall product	In vitro data	Irritant
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	In vitro data	Irritant
2-HYDROXYETHYL METHACRYLATE	Rabbit	Minimal irritation
ETHANOL	Rabbit	No significant irritation
2-Propenoic acid, 2-methyl-, reaction products with 1,10-decanediol and phosphorus oxide (P2O5)	In vitro data	Corrosive
Synthetic amorphous silica, fumed, crystalline-free	Rabbit	No significant irritation
METHACRYLIC ACID, 3-(TRIETHOXSILYL)PROPYL ESTER	Rabbit	No significant irritation
N,N-DIMETHYLBENZOCAINE	Rabbit	No significant irritation
DIETHYLENE GLYCOL DIMETHACRYLATE	similar compounds	No significant irritation
(3-AMINOPROPYL)TRIETHOXSILANE	Rabbit	Corrosive
Acetic acid, copper(2+) salt, monohydrate	In vitro data	Corrosive

**Serious Eye Damage/Irritation**

Name	Species	Value
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	In vitro data	No significant irritation
2-HYDROXYETHYL METHACRYLATE	Rabbit	Moderate irritant
ETHANOL	Rabbit	Severe irritant
2-Propenoic acid, 2-methyl-, reaction products with 1,10-decanediol and phosphorus oxide (P2O5)	In vitro data	Corrosive
Synthetic amorphous silica, fumed, crystalline-free	Rabbit	No significant irritation
METHACRYLIC ACID, 3-(TRIETHOXSILYL)PROPYL ESTER	Rabbit	No significant irritation
N,N-DIMETHYLBENZOCAINE	Rabbit	No significant irritation
DIETHYLENE GLYCOL DIMETHACRYLATE	similar compounds	No significant irritation
(3-AMINOPROPYL)TRIETHOXSILANE	Rabbit	Corrosive
Acetic acid, copper(2+) salt, monohydrate	Rabbit	Corrosive

**Skin Sensitization**

Name	Species	Value
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Professional judgement	Sensitizing
2-HYDROXYETHYL METHACRYLATE	Human and animal	Sensitizing
ETHANOL	Human	Not classified
2-Propenoic acid, 2-methyl-, reaction products with 1,10-decanediol and phosphorus oxide (P2O5)	Mouse	Sensitizing
Synthetic amorphous silica, fumed, crystalline-free	Human and animal	Not classified
METHACRYLIC ACID, 3-(TRIETHOXSILYL)PROPYL ESTER	similar compounds	Not classified
N,N-DIMETHYLBENZOCAINE		Not classified
DIETHYLENE GLYCOL DIMETHACRYLATE	similar compounds	Sensitizing
(3-AMINOPROPYL)TRIETHOXSILANE	Guinea pig	Sensitizing
Acetic acid, copper(2+) salt, monohydrate	Guinea pig	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
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	In vivo	Not mutagenic
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	In Vitro	Some positive data exist, but the data are not sufficient for classification
2-HYDROXYETHYL METHACRYLATE	In vivo	Not mutagenic
2-HYDROXYETHYL METHACRYLATE	In Vitro	Some positive data exist, but the data are not sufficient for classification
ETHANOL	In Vitro	Some positive data exist, but the data are not sufficient for classification
ETHANOL	In vivo	Some positive data exist, but the data are not sufficient for classification
2-Propenoic acid, 2-methyl-, reaction products with 1,10-decanediol and	In Vitro	Not mutagenic

phosphorus oxide (P2O5)		
Synthetic amorphous silica, fumed, crystalline-free	In Vitro	Not mutagenic
METHACRYLIC ACID, 3-(TRIETHOXYSILYL)PROPYL ESTER	In Vitro	Not mutagenic
N,N-DIMETHYLBENZOCAINE	In vivo	Not mutagenic
N,N-DIMETHYLBENZOCAINE	In Vitro	Some positive data exist, but the data are not sufficient for classification
DIETHYLENE GLYCOL DIMETHACRYLATE	In Vitro	Not mutagenic
(3-AMINOPROPYL)TRIETHOXYSILANE	In Vitro	Not mutagenic
(3-AMINOPROPYL)TRIETHOXYSILANE	In vivo	Not mutagenic
Acetic acid, copper(2+) salt, monohydrate	In Vitro	Not mutagenic

### Carcinogenicity

Name	Route	Species	Value
ETHANOL	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Synthetic amorphous silica, fumed, crystalline-free	Not Specified	Mouse	Some positive data exist, but the data are not sufficient for classification
(3-AMINOPROPYL)TRIETHOXYSILANE	Dermal	Mouse	Not carcinogenic

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	prematuring into lactation
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	29 days
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	prematuring into lactation
2-HYDROXYETHYL METHACRYLATE	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	prematuring & during gestation
2-HYDROXYETHYL METHACRYLATE	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	49 days
2-HYDROXYETHYL METHACRYLATE	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	prematuring & during gestation
ETHANOL	Inhalation	Not classified for development	Rat	NOAEL 38 mg/l	during gestation
ETHANOL	Ingestion	Not classified for development	Rat	NOAEL 5,200 mg/kg/day	prematuring & during gestation
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 organogenesis
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
(3-AMINOPROPYL)TRIETHOXYSILANE	Ingestion	Not classified for development	Rat	NOAEL 100 mg/kg/day	during gestation

## Target Organ(s)

## Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
ETHANOL	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	LOAEL 9.4 mg/l	not available
ETHANOL	Inhalation	central nervous system depression	Not classified	Human and animal	NOAEL not available	
ETHANOL	Ingestion	central nervous system depression	Not classified	Multiple animal species	NOAEL not available	
ETHANOL	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg	
2-Propenoic acid, 2-methyl-, reaction products with 1,10-decanediol and phosphorus oxide (P2O5)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
COPOLYMER OF ACRYLIC AND ITACONIC ACID	Ingestion	nervous system	Not classified	Rat	NOAEL 5,000 mg/kg	
(3-AMINOPROPYL)TRIETH OXYSILANE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Acetic acid, copper(2+) salt, monohydrate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

## Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Ingestion	heart	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
2-Propenoic acid, 2-methyl-, diesters with 4,6-	Ingestion	liver	Not classified	Rat	NOAEL 1,000	29 days

dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers					mg/kg/day	
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Ingestion	immune system	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Ingestion	muscles	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Ingestion	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Ingestion	eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers	Ingestion	respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
ETHANOL	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 124 mg/l	365 days
ETHANOL	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 25 mg/l	14 days
ETHANOL	Inhalation	immune system	Not classified	Rat	NOAEL 25 mg/l	14 days
ETHANOL	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 8,000 mg/kg/day	4 months
ETHANOL	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg/day	7 days
Synthetic amorphous silica, fumed, crystalline-free	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
Synthetic amorphous silica, fumed, crystalline-free	Inhalation	silicosis	Not classified	Human	NOAEL Not available	occupational exposure
COPOLYMER OF ACRYLIC AND ITACONIC ACID	Ingestion	endocrine system	Not classified	Rat	NOAEL 200 mg/kg/day	28 days
COPOLYMER OF ACRYLIC AND ITACONIC ACID	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 200 mg/kg/day	28 days
COPOLYMER OF ACRYLIC AND ITACONIC ACID	Ingestion	liver	Not classified	Rat	NOAEL 200 mg/kg/day	28 days
COPOLYMER OF ACRYLIC AND ITACONIC ACID	Ingestion	heart	Not classified	Rat	NOAEL 2,000 mg/kg/day	28 days
COPOLYMER OF ACRYLIC AND ITACONIC ACID	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 2,000 mg/kg/day	28 days
COPOLYMER OF	Ingestion	immune system	Not classified	Rat	NOAEL	28 days

ACRYLIC AND ITACONIC ACID					2,000 mg/kg/day	
COPOLYMER OF ACRYLIC AND ITACONIC ACID	Ingestion	muscles	Not classified	Rat	NOAEL 2,000 mg/kg/day	28 days
COPOLYMER OF ACRYLIC AND ITACONIC ACID	Ingestion	nervous system	Not classified	Rat	NOAEL 2,000 mg/kg/day	28 days
COPOLYMER OF ACRYLIC AND ITACONIC ACID	Ingestion	eyes	Not classified	Rat	NOAEL 2,000 mg/kg/day	28 days
COPOLYMER OF ACRYLIC AND ITACONIC ACID	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 2,000 mg/kg/day	28 days
COPOLYMER OF ACRYLIC AND ITACONIC ACID	Ingestion	respiratory system	Not classified	Rat	NOAEL 2,000 mg/kg/day	28 days
COPOLYMER OF ACRYLIC AND ITACONIC ACID	Ingestion	vascular system	Not classified	Rat	NOAEL 2,000 mg/kg/day	28 days
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	Not classified	Rat	NOAEL 900 mg/kg/day	28 days
N,N-DIMETHYLBENZOCAINE	Ingestion	heart	Not classified	Rat	NOAEL 900 mg/kg/day	28 days
N,N-DIMETHYLBENZOCAINE	Ingestion	endocrine system	Not classified	Rat	NOAEL 900 mg/kg/day	28 days
N,N-DIMETHYLBENZOCAINE	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 900 mg/kg/day	28 days
N,N-DIMETHYLBENZOCAINE	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 900 mg/kg/day	28 days
N,N-DIMETHYLBENZOCAINE	Ingestion	immune system	Not classified	Rat	NOAEL 900 mg/kg/day	28 days
N,N-DIMETHYLBENZOCAINE	Ingestion	muscles	Not classified	Rat	NOAEL 900 mg/kg/day	28 days
N,N-DIMETHYLBENZOCAINE	Ingestion	nervous system	Not classified	Rat	NOAEL 900 mg/kg/day	28 days
N,N-DIMETHYLBENZOCAINE	Ingestion	eyes	Not classified	Rat	NOAEL 900 mg/kg/day	28 days
N,N-DIMETHYLBENZOCAINE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 900 mg/kg/day	28 days
N,N-DIMETHYLBENZOCAINE	Ingestion	respiratory system	Not classified	Rat	NOAEL 900 mg/kg/day	28 days
N,N-DIMETHYLBENZOCAINE	Ingestion	vascular system	Not classified	Rat	NOAEL 900 mg/kg/day	28 days
(3-AMINOPROPYL)TRIMETHOXYSILANE	Dermal	skin	Not classified	Rabbit	NOAEL 17 mg/kg/day	11 days
(3-AMINOPROPYL)TRIMETHOXYSILANE	Dermal	hematopoietic system	Not classified	Rabbit	NOAEL 126 mg/kg/day	11 days
(3-AMINOPROPYL)TRIMETHOXYSILANE	Dermal	kidney and/or bladder	Not classified	Rabbit	NOAEL 126 mg/kg/day	11 days

(3-AMINOPROPYL)TRIENTHOXYSILANE	Inhalation	respiratory system	Not classified	Rat	LOAEL 147 mg/l	28 days
(3-AMINOPROPYL)TRIENTHOXYSILANE	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 147 mg/l	28 days
(3-AMINOPROPYL)TRIENTHOXYSILANE	Ingestion	endocrine system	Not classified	Rat	NOAEL 200 mg/kg/day	91 days
(3-AMINOPROPYL)TRIENTHOXYSILANE	Ingestion	liver	Not classified	Rat	NOAEL 200 mg/kg/day	91 days
(3-AMINOPROPYL)TRIENTHOXYSILANE	Ingestion	heart	Not classified	Rat	NOAEL 200 mg/kg/day	91 days
(3-AMINOPROPYL)TRIENTHOXYSILANE	Ingestion	skin	Not classified	Rat	NOAEL 200 mg/kg/day	91 days
(3-AMINOPROPYL)TRIENTHOXYSILANE	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 200 mg/kg/day	91 days
(3-AMINOPROPYL)TRIENTHOXYSILANE	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 200 mg/kg/day	91 days
(3-AMINOPROPYL)TRIENTHOXYSILANE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 200 mg/kg/day	91 days
(3-AMINOPROPYL)TRIENTHOXYSILANE	Ingestion	immune system	Not classified	Rat	NOAEL 200 mg/kg/day	91 days
(3-AMINOPROPYL)TRIENTHOXYSILANE	Ingestion	muscles	Not classified	Rat	NOAEL 200 mg/kg/day	91 days
(3-AMINOPROPYL)TRIENTHOXYSILANE	Ingestion	nervous system	Not classified	Rat	NOAEL 200 mg/kg/day	91 days
(3-AMINOPROPYL)TRIENTHOXYSILANE	Ingestion	eyes	Not classified	Rat	NOAEL 200 mg/kg/day	91 days
(3-AMINOPROPYL)TRIENTHOXYSILANE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 200 mg/kg/day	91 days
(3-AMINOPROPYL)TRIENTHOXYSILANE	Ingestion	respiratory system	Not classified	Rat	NOAEL 200 mg/kg/day	91 days
(3-AMINOPROPYL)TRIENTHOXYSILANE	Ingestion	vascular system	Not classified	Rat	NOAEL 200 mg/kg/day	91 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):** D001 (Ignitable), D035 (Methyl ethyl ketone)

## SECTION 14: Transport Information

Please contact the emergency numbers listed on the first page of the SDS for Transportation Information for this material.

## SECTION 15: Regulatory information

### 15.1. US Federal Regulations

Contact manufacturer for more information

#### EPCRA 311/312 Hazard Classifications:

##### Physical Hazards

Flammable (gases, aerosols, liquids, or solids)

##### Health Hazards

Hazard Not Otherwise Classified (HNOC)

Reproductive toxicity

Respiratory or Skin Sensitization

Serious eye damage or eye irritation

Skin Corrosion or Irritation

### 15.2. State Regulations

Contact manufacturer 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 manufacturer for more information

### 15.4. International Regulations

Contact manufacturer 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: 3 Flammability: 3 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

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### SECTION 1: Identification

#### 1.1. Product identifier

Filtek™ Supreme Ultra Universal Restorative (6028, 6029, 5916)

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

##### Recommended use

Dental Product, Restorative

##### Restrictions on use

For use only by dental professionals

#### 1.3. Supplier's details

<b>MANUFACTURER:</b>	Solventum
<b>DIVISION:</b>	Dental Solutions
<b>ADDRESS:</b>	Solventum US LLC, 12930 IH 10 West, San Antonio, TX 78249
<b>Telephone:</b>	1-855-423-6725

#### 1.4. Emergency telephone number

+1 703-741-5970; (24/7)

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Skin Sensitizer: Category 1B.

Carcinogenicity: Category 2.

#### 2.2. Label elements

##### Signal word

Warning

##### Symbols

Exclamation mark | Health Hazard |

##### Pictograms

**Hazard Statements**

May cause an allergic skin reaction.  
Suspected of causing cancer by inhalation.

**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/vapors/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.  
Wash contaminated clothing 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.

**Supplemental Information:**

Although titanium dioxide is classified as a carcinogen, exposures associated with this health effect are not expected during normal, intended use of this product.

### SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Silane Treated Ceramic	444758-98-9	60 - 80
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	1565-94-2	1 - 10
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (BISGMA-6)	41637-38-1	1 - 10
Diurethane Dimethacrylate (UDMA)	72869-86-4	1 - 10
Silane Treated Silica	248596-91-0	1 - 10
Polyethylene Glycol Dimethacrylate (PEGDMA)	25852-47-5	< 5
Silane treated zirconia	3032439-23-6	1 - 5
Triethylene glycol dimethacrylate	109-16-0	< 1
Bis(2,4,6-trimethylbenzoyl)phenylphosphine oxide	162881-26-7	< 0.05

### 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. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

**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. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. 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. 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

Tooth

#### Specific Physical Form:

Paste

Odor

Slight Acrylate

Odor threshold

*No Data Available*

pH

*Not Applicable*

Melting point

*No Data Available*

<b>Boiling Point</b>	<i>Not Applicable</i>
<b>Flash Point</b>	No flash point
<b>Evaporation rate</b>	<i>Not Applicable</i>
<b>Flammability (solid, gas)</b>	Not Classified
<b>Flammable Limits(LEL)</b>	<i>Not Applicable</i>
<b>Flammable Limits(UEL)</b>	<i>Not Applicable</i>
<b>Vapor Pressure</b>	<i>Not Applicable</i>
<b>Vapor Density</b>	<i>Not Applicable</i>
<b>Density</b>	1.9 g/cm <sup>3</sup>
<b>Specific Gravity</b>	1.9 [Ref Std:WATER=1]
<b>Solubility In Water</b>	<i>No Data Available</i>
<b>Solubility- non-water</b>	<i>No Data Available</i>
<b>Partition coefficient: n-octanol/ water</b>	<i>Not Applicable</i>
<b>Autoignition temperature</b>	<i>No Data Available</i>
<b>Decomposition temperature</b>	<i>No Data Available</i>
<b>Viscosity</b>	<i>No Data Available</i>
<b>Molecular weight</b>	<i>No Data Available</i>
<b>Volatile Organic Compounds</b>	<i>Not Applicable</i>
<b>VOC Less H<sub>2</sub>O &amp; Exempt Solvents</b>	<i>Not Applicable</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

Heat

### 10.5. Incompatible materials

Strong oxidizing agents

### 10.6. Hazardous decomposition products

#### Substance

None known.

#### Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

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

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:

May cause additional health effects (see below).

### 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.

### Additional Health Effects:

### Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

### 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
Diurethane Dimethacrylate (UDMA)	Dermal	Rat	LD50 > 2,000 mg/kg
Diurethane Dimethacrylate (UDMA)	Ingestion	Rat	LD50 > 5,000 mg/kg
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (BISEMA-6)	Dermal	Rat	LD50 > 2,000 mg/kg
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (BISEMA-6)	Ingestion	Rat	LD50 > 35,000 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
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Dermal	Professional judgment	LD50 estimated to be > 5,000 mg/kg
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Ingestion	Rat	LD50 > 11,700 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
Polyethylene Glycol Dimethacrylate (PEGDMA)	Dermal	Rabbit	LD50 15,500 mg/kg
Polyethylene Glycol Dimethacrylate (PEGDMA)	Ingestion	Rat	LD50 9,400 mg/kg
Triethylene glycol dimethacrylate	Dermal	Mouse	LD50 > 2,000
Triethylene glycol dimethacrylate	Ingestion	Rat	LD50 10,837 mg/kg
Bis(2,4,6-trimethylbenzoyl)phenylphosphine oxide	Dermal	Rat	LD50 > 2,000 mg/kg
Bis(2,4,6-trimethylbenzoyl)phenylphosphine oxide	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
Diurethane Dimethacrylate (UDMA)	Rabbit	No significant irritation
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (BISEMA-6)	Rabbit	Minimal irritation
Silane Treated Silica	Professional judgment	No significant irritation
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Rabbit	No significant irritation
Silane treated zirconia	Rabbit	No significant irritation
Polyethylene Glycol Dimethacrylate (PEGDMA)	Rabbit	Mild irritant
Triethylene glycol dimethacrylate	Rabbit	No significant irritation
Bis(2,4,6-trimethylbenzoyl)phenylphosphine oxide	Rabbit	No significant irritation

### Serious Eye Damage/Irritation

Name	Species	Value
Silane Treated Ceramic	similar compounds	Mild irritant
Diurethane Dimethacrylate (UDMA)	Rabbit	No significant irritation
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (BISEMA-6)	Rabbit	No significant irritation
Silane Treated Silica	Professional judgment	No significant irritation
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	In vitro data	No significant irritation
Silane treated zirconia	Rabbit	Mild irritant
Polyethylene Glycol Dimethacrylate (PEGDMA)	Rabbit	Moderate irritant
Triethylene glycol dimethacrylate	Rabbit	No significant irritation
Bis(2,4,6-trimethylbenzoyl)phenylphosphine oxide	Rabbit	Mild irritant

### Skin Sensitization

Name	Species	Value
Silane Treated Ceramic	similar compounds	Not classified
Diurethane Dimethacrylate (UDMA)	Multiple animal species	Sensitizing
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (BISEMA-6)	Guinea pig	Not classified
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Mouse	Not classified
Polyethylene Glycol Dimethacrylate (PEGDMA)	Guinea pig	Not classified
Triethylene glycol dimethacrylate	Mouse	Sensitizing
Bis(2,4,6-trimethylbenzoyl)phenylphosphine oxide	Guinea pig	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
Diurethane Dimethacrylate (UDMA)	In Vitro	Not mutagenic
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (BISEMA-6)	In Vitro	Not mutagenic
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	In Vitro	Not mutagenic
Silane treated zirconia	In Vitro	Some positive data exist, but the data are not

		sufficient for classification
Triethylene glycol dimethacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Bis(2,4,6-trimethylbenzoyl)phenylphosphine oxide	In Vitro	Not mutagenic

### 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
Triethylene glycol dimethacrylate	Dermal	Mouse	Not carcinogenic

### 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
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during gestation
Triethylene glycol dimethacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	prematuring into lactation
Triethylene glycol dimethacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	5 weeks
Triethylene glycol dimethacrylate	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	prematuring into lactation
Bis(2,4,6-trimethylbenzoyl)phenylphosphine oxide	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during gestation

### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Polyethylene Glycol Dimethacrylate (PEGDMA)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

#### 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	
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	Not classified	Rat	NOAEL 1,000 mg/kg/day	56 days

		system				
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
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
Triethylene glycol dimethacrylate	Dermal	liver	Not classified	Mouse	NOAEL 2,000 mg/kg/day	13 weeks
Triethylene glycol dimethacrylate	Dermal	skin	Not classified	Mouse	NOAEL 100 mg/kg/day	13 weeks
Triethylene glycol dimethacrylate	Dermal	gastrointestinal tract   hematopoietic system   nervous system   kidney and/or bladder   respiratory system	Not classified	Mouse	NOAEL 2,000 mg/kg/day	13 weeks
Triethylene glycol dimethacrylate	Ingestion	hematopoietic system   liver   nervous system   kidney and/or bladder   eyes	Not classified	Rat	NOAEL 3,849 mg/kg/day	13 weeks
Bis(2,4,6-trimethylbenzoyl)phenylphosphine oxide	Ingestion	gastrointestinal tract   hematopoietic system   heart   endocrine system   liver   immune system   nervous system   eyes   kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	92 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**

Please contact the emergency numbers listed on the first page of the SDS for Transportation Information for this material.

**SECTION 15: Regulatory information****15.1. US Federal Regulations**

Contact manufacturer for more information

**EPCRA 311/312 Hazard Classifications:****Physical Hazards**

Not applicable

**Health Hazards**

Carcinogenicity

Respiratory or Skin Sensitization

**Additional TSCA Information**

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

**15.2. State Regulations**

Contact manufacturer 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 manufacturer for more information

**15.4. International Regulations**

Contact manufacturer 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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<b>Issue Date:</b>	06/17/25	<b>Supersedes Date:</b>	07/20/22

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## Safety Data Sheet

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<b>Document Group:</b>	40-9630-1	<b>Version Number:</b>	4.00
<b>Issue Date:</b>	04/28/26	<b>Supersedes Date:</b>	11/06/25

### SECTION 1: Identification

#### 1.1. Product identifier

Filtek™ Supreme Flowable

#### Product Identification Numbers

70-2014-0776-7, 70-2014-0777-5, 70-2014-0779-1, 70-2014-0780-9, 70-2014-0781-7, 70-2014-0802-1, 70-2014-0803-9, 70-2014-0805-4, 70-2014-0807-0, 70-2014-0808-8, 70-2014-0809-6, 70-2014-0810-4, 70-2014-0811-2, 70-2014-0812-0, 70-2014-0813-8, 70-2014-0814-6, 70-2014-0815-3, 70-2014-0816-1, 70-2014-0817-9, 70-2014-0819-5, 70-2014-0820-3, 70-2014-0821-1, 70-2014-0849-2, 70-2014-0858-3, 70-2014-0859-1, 70-2014-0860-9, 70-2014-0861-7, 70-2014-0862-5, 70-2014-0863-3, 70-2014-0864-1, 70-2014-0865-8, 70-2014-0866-6, 70-2014-0867-4, 70-2014-0873-2, 70-2014-0874-0, 70-2014-0875-7, 70-2014-0876-5, 70-2014-0877-3, 70-2014-0878-1, 70-2014-0879-9, 70-2014-0889-8, 70-2014-0890-6, 70-2014-0926-8, 70-2014-0927-6, 70-2014-0928-4, 70-2014-0929-2, 70-2014-0930-0, 70-2014-0931-8, 70-2014-0932-6, 70-2014-0933-4, 70-2014-0934-2, 70-2014-0935-9, 70-2014-0936-7, 70-2014-0937-5, 70-2014-0942-5, 70-2014-0943-3, 70-2014-1426-8, 70-2014-1427-6, 70-2014-1428-4, 70-2014-1429-2, 70-2014-1430-0, 70-2014-1431-8, 70-2014-1432-6, 70-2014-1433-4, 70-2014-1434-2, 70-2014-1435-9, 70-2014-1436-7, 70-2014-1445-8, 70-2014-1446-6, 70-2014-1447-4, 70-2014-1448-2, 70-2014-1449-0, 70-2014-1450-8, 70-2014-1451-6, 70-2014-1452-4, 70-2014-1453-2, 70-2014-1454-0, 70-2014-1463-1, 70-2014-1464-9, 70-2014-1465-6, 70-2014-1466-4, 70-2014-1467-2, 70-2014-1468-0, 70-2014-1469-8, 70-2014-1470-6, 70-2014-1471-4, 70-2014-1474-8, 70-2014-1475-5, 70-2014-1476-3, 70-2014-1477-1, 70-2014-1478-9, 70-2014-1479-7, 70-2014-1480-5, 70-2014-1481-3, 70-2014-1482-1, 71-0001-5517-7, 71-0001-5518-5, UU-0135-2920-9, UU-0135-2949-8, UU-0135-2950-6, UU-0135-2981-1, UU-0135-2982-9, UU-0135-2983-7, UU-0135-2984-5, UU-0135-2985-2, UU-0135-2991-0, UU-0135-2992-8, UU-0135-2993-6, UU-0136-1898-6, UU-0136-1899-4, UU-0136-1900-0, UU-0136-1901-8, UU-0136-1902-6, UU-0136-1903-4, UU-0136-1904-2, UU-0136-1905-9, UU-0136-1906-7, UU-0136-1907-5, UU-0136-1908-3, UU-0136-1909-1, UU-0136-1910-9, UU-0136-1911-7, UU-0136-1912-5, UU-0136-1913-3, UU-0136-1914-1, UU-0136-1915-8, UU-0136-1916-6, UU-0136-1917-4, UU-0136-1918-2, UU-0136-1919-0, UU-0136-1920-8, UU-0136-1921-6, UU-0136-1922-4, UU-0136-1923-2, UU-0136-1924-0, UU-0136-1928-1, UU-0136-1929-9, UU-0136-1930-7, UU-0136-1931-5, UU-0136-1932-3, UU-0136-1933-1, UU-0136-1934-9, UU-0136-1935-6, UU-0136-1936-4, UU-0136-1937-2, UU-0136-1938-0, UU-0136-1939-8, UU-0136-1940-6, UU-0136-1941-4, UU-0136-1942-2, UU-0136-1943-0, UU-0136-1944-8, UU-0136-1945-5, UU-0136-1946-3, UU-0136-1947-1, UU-0136-1948-9, UU-0136-1949-7, UU-0136-1950-5, UU-0136-1951-3, UU-0136-1952-1, UU-0136-1953-9, UU-0136-1954-7, UU-0136-1955-4, UU-0136-1956-2, UU-0136-1957-0, UU-0136-1958-8, UU-0136-1959-6, UU-0136-1960-4, UU-0136-1961-2, UU-0136-1962-0, UU-0136-1963-8, UU-0139-1163-9, UU-0139-1164-7  
7100219439, 7100219440, 7100219441, 7100219442, 7100219463, 7100219488, 7100219471, 7100219469, 7100219508, 7100219470, 7100219497, 7100219472, 7100219484, 7100219495, 7100219476, 7100219475, 7100219461, 7100219460, 7100219459, 7100219481, 7100219480, 7100219479, 7100219478, 7100219486, 7100219487, 7100219468, 7100219489, 7100219493, 7100219458, 7100219457, 7100219456, 7100219455, 7100219466, 7100219464, 7100219465, 7100219474, 7100219473, 7100219462, 7100219467, 7100219477, 7100219483, 7100219482, 7100219198, 7100219196, 7100219200, 7100219201, 7100219202, 7100219513, 7100219514, 7100219516, 7100219515, 7100219517, 7100219521, 7100219520, 7100219519, 7100219518, 7100233389, 7100233388, 7100233390, 7100233387, 7100233414, 7100233415, 7100232959, 7100233416, 7100233417, 7100233418, 7100233419, 7100234883, 7100234884, 7100234892, 7100234893, 7100234894,

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## 1.2. Recommended use and restrictions on use

### Recommended use

Dental Product, Composite restorative material

## 1.3. Supplier's details

<b>MANUFACTURER:</b>	Solventum
<b>DIVISION:</b>	Dental Solutions
<b>ADDRESS:</b>	Solventum US LLC, 12930 IH 10 West, San Antonio, TX 78249
<b>Telephone:</b>	1-855-423-6725

## 1.4. Emergency telephone number

+1 703-741-5970; (24/7)

## SECTION 2: Hazard identification

### 2.1. Hazard classification

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/vapors/spray.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Wear protective gloves.

**Response:**

IF ON SKIN: Wash with plenty of soap and water.  
 IF exposed or concerned: Get medical attention.  
 If skin irritation or rash occurs: Get medical attention.  
 Take off contaminated clothing and wash it before reuse.

**Storage:**

Store locked up.

**Disposal:**

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

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

**SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
Silane Treated Ceramic	444758-98-9	50 - 60 Trade Secret *
Substituted Dimethacrylate	27689-12-9	15 - 25 Trade Secret *
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	1565-94-2	5 - 10 Trade Secret *
Silane Treated Silica	248596-91-0	5 - 10 Trade Secret *
Triethylene Glycol Dimethacrylate (TEGDMA)	109-16-0	< 10 Trade Secret *
Poly[oxy(1-oxo-1,6-hexanediyl)], α,α'-(oxydi-2,1-ethanediyl)bis[ω-[[[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl]amino]carbonyl]oxy]-	220182-22-9	1 - 5 Trade Secret *
Ytterbium Fluoride (YbF3)	13760-80-0	1 - 5 Trade Secret *
N,N-DIMETHYLBENZOCAINE	10287-53-3	< 0.3 Trade Secret *
Diphenyliodonium Hexafluorophosphate	58109-40-3	< 0.2 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:**

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

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	During Combustion
Carbon dioxide	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. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

#### 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/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. 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
FLUORIDE AS DUST	13760-80-0	OSHA	TWA(as F):2.5 mg/m3;TWA(as dust):2.5 mg/m3	
Fluorides, as F	13760-80-0	ACGIH	TWA(as F):2.5 mg/m3	A4: Not class. as human carcin

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**

Physical state	Solid
Specific Physical Form:	Paste
Color	Tooth
Odor	Slight Acrylate
Odor threshold	No Data Available
pH	Not Applicable
Melting point/Freezing point	No Data Available

<b>Boiling point/Initial boiling point/Boiling range</b>	<i>Not Applicable</i>
<b>Flash Point</b>	No flash point
<b>Evaporation rate</b>	<i>Not Applicable</i>
<b>Flammability</b>	Not Applicable
<b>Flammable Limits(LEL)</b>	<i>Not Applicable</i>
<b>Flammable Limits(UEL)</b>	<i>Not Applicable</i>
<b>Vapor Pressure</b>	<i>Not Applicable</i>
<b>Relative Vapor Density</b>	<i>Not Applicable</i>
<b>Density</b>	1.5 g/cm3
<b>Relative Density</b>	1.5 [Ref Std: WATER=1]
<b>Water solubility</b>	Negligible
<b>Solubility- non-water</b>	<i>No Data Available</i>
<b>Partition coefficient: n-octanol/ water</b>	<i>Not Applicable</i>
<b>Autoignition temperature</b>	<i>No Data Available</i>
<b>Decomposition temperature</b>	<i>No Data Available</i>
<b>Kinematic Viscosity</b>	<i>No Data Available</i>
<b>Volatile Organic Compounds</b>	<i>No Data Available</i>
<b>Percent volatile</b>	<i>No Data Available</i>
<b>VOC Less H2O &amp; Exempt Solvents</b>	<i>No Data Available</i>
<b>Molecular weight</b>	<i>No Data Available</i>

<b>Particle Characteristics</b>	<i>Not Applicable</i>
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**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**

<u>Substance</u>	<u>Condition</u>
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.

**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. 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. 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
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Ingestion	Rat	LD50 > 11,700 mg/kg
Triethylene Glycol Dimethacrylate (TEGDMA)	Dermal	Mouse	LD50 > 2,000
Triethylene Glycol Dimethacrylate (TEGDMA)	Ingestion	Rat	LD50 10,837 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
Ytterbium Fluoride (YbF3)	Dermal	Professional judgement	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 compounds	No significant irritation
Substituted Dimethacrylate	Rabbit	No significant irritation
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Rabbit	No significant irritation
Triethylene Glycol Dimethacrylate (TEGDMA)	Rabbit	No significant irritation
Silane Treated Silica	Professional judgement	No significant irritation
N,N-DIMETHYLBENZOCAINE	Rabbit	No significant irritation
Diphenyliodonium Hexafluorophosphate	Rabbit	No significant irritation

**Serious Eye Damage/Irritation**

Name	Species	Value
Silane Treated Ceramic	similar compounds	Mild irritant
Substituted Dimethacrylate	Rabbit	Mild irritant
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	In vitro data	No significant irritation
Triethylene Glycol Dimethacrylate (TEGDMA)	Rabbit	No significant irritation
Silane Treated Silica	Professional judgement	No significant irritation
Ytterbium Fluoride (YbF3)	Professional judgement	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)	Mouse	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
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**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	Rat	NOAEL 1,000 mg/kg/day	prematuring into lactation
Triethylene Glycol Dimethacrylate (TEGDMA)	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	5 weeks
Triethylene Glycol Dimethacrylate (TEGDMA)	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	prematuring into lactation
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	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Ingestion	heart	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Ingestion	skin	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days

Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Ingestion	immune system	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Ingestion	muscles	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Ingestion	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Ingestion	eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Ingestion	respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Ingestion	vascular system	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Triethylene Glycol Dimethacrylate (TEGDMA)	Dermal	liver	Not classified	Mouse	NOAEL 2,000 mg/kg/day	13 weeks
Triethylene Glycol Dimethacrylate (TEGDMA)	Dermal	skin	Not classified	Mouse	NOAEL 100 mg/kg/day	13 weeks
Triethylene Glycol Dimethacrylate (TEGDMA)	Dermal	gastrointestinal tract	Not classified	Mouse	NOAEL 2,000 mg/kg/day	13 weeks
Triethylene Glycol Dimethacrylate (TEGDMA)	Dermal	hematopoietic system	Not classified	Mouse	NOAEL 2,000 mg/kg/day	13 weeks
Triethylene Glycol Dimethacrylate (TEGDMA)	Dermal	nervous system	Not classified	Mouse	NOAEL 2,000 mg/kg/day	13 weeks
Triethylene Glycol Dimethacrylate (TEGDMA)	Dermal	kidney and/or bladder	Not classified	Mouse	NOAEL 2,000 mg/kg/day	13 weeks
Triethylene Glycol Dimethacrylate (TEGDMA)	Dermal	respiratory system	Not classified	Mouse	NOAEL 2,000 mg/kg/day	13 weeks
Triethylene Glycol Dimethacrylate (TEGDMA)	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 3,849 mg/kg/day	13 weeks
Triethylene Glycol Dimethacrylate (TEGDMA)	Ingestion	liver	Not classified	Rat	NOAEL 3,849 mg/kg/day	13 weeks
Triethylene Glycol Dimethacrylate (TEGDMA)	Ingestion	nervous system	Not classified	Rat	NOAEL 3,849 mg/kg/day	13 weeks
Triethylene Glycol Dimethacrylate (TEGDMA)	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 3,849 mg/kg/day	13 weeks
Triethylene Glycol Dimethacrylate (TEGDMA)	Ingestion	eyes	Not classified	Rat	NOAEL 3,849 mg/kg/day	13 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	Not classified	Rat	NOAEL 900 mg/kg/day	28 days
N,N-DIMETHYLBENZOCAINE	Ingestion	heart	Not classified	Rat	NOAEL 900 mg/kg/day	28 days
N,N-DIMETHYLBENZOCAINE	Ingestion	endocrine system	Not classified	Rat	NOAEL 900 mg/kg/day	28 days

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N,N-DIMETHYLBENZOCAINE	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 900 mg/kg/day	28 days
N,N-DIMETHYLBENZOCAINE	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 900 mg/kg/day	28 days
N,N-DIMETHYLBENZOCAINE	Ingestion	immune system	Not classified	Rat	NOAEL 900 mg/kg/day	28 days
N,N-DIMETHYLBENZOCAINE	Ingestion	muscles	Not classified	Rat	NOAEL 900 mg/kg/day	28 days
N,N-DIMETHYLBENZOCAINE	Ingestion	nervous system	Not classified	Rat	NOAEL 900 mg/kg/day	28 days
N,N-DIMETHYLBENZOCAINE	Ingestion	eyes	Not classified	Rat	NOAEL 900 mg/kg/day	28 days
N,N-DIMETHYLBENZOCAINE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 900 mg/kg/day	28 days
N,N-DIMETHYLBENZOCAINE	Ingestion	respiratory system	Not classified	Rat	NOAEL 900 mg/kg/day	28 days
N,N-DIMETHYLBENZOCAINE	Ingestion	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**

Please contact the emergency numbers listed on the first page of the SDS for Transportation Information for this material.

## SECTION 15: Regulatory information

### 15.1. US Federal Regulations

Contact manufacturer 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 manufacturer 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 manufacturer for more information

### 15.4. International Regulations

Contact manufacturer 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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