



## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 09-6071-6 | <b>Version Number:</b>  | 5.01     |
| <b>Issue Date:</b>     | 04/15/15  | <b>Supersedes Date:</b> | 09/05/03 |

### Product identifier

CLINPRO SEALANT INTRO. KIT, BOTTLES

### ID Number(s):

70-2010-3008-0, 70-2010-3140-1, 70-2010-3141-9, 70-2010-3142-7, 70-2010-3143-5

### Recommended use

Dental sealant

### Restrictions on use

For use only by dental professionals

### Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | 3M ESPE Dental Products                 |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

### Emergency telephone number

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

**This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet (SDS), Article Information Sheet (AIS), or Article Information Letter (AIL) for each of these components is included. Please do not separate the component documents from this cover page. The document numbers for components of this product are:**

08-9514-4, 16-0386-9

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 08-9514-4 | <b>Version Number:</b>  | 13.01    |
| <b>Issue Date:</b>     | 11/20/17  | <b>Supersedes Date:</b> | 02/25/16 |

### SECTION 1: Identification

#### 1.1. Product identifier

7423/7423M 3M™ ESPE™ SCOTCHBOND™ ETCHANT GEL

#### Product Identification Numbers

70-2010-1314-4, 70-2010-1686-5

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

##### Recommended use

Dental Product, Etchant

##### Restrictions on use

For use only by dental professionals

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Oral Care Solutions Division            |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard identification

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

#### 2.1. Hazard classification

Corrosive to metal: Category 1.

Serious Eye Damage/Irritation: Category 1.

Skin Corrosion/Irritation: Category 1C.

#### 2.2. Label elements

##### Signal word

Danger

**Symbols**

Corrosion |

**Pictograms****Hazard Statements**

May be corrosive to metals.

Causes severe skin burns and eye damage.

**Precautionary Statements****Prevention:**

Keep only in original container.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear protective gloves, protective clothing, and eye/face protection.

Wash thoroughly after handling.

**Response:**

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

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

Immediately call a POISON CENTER or doctor/physician.

Wash contaminated clothing before reuse.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Absorb spillage to prevent material damage.

**Storage:**

Store in a corrosive resistant container with a resistant inner liner.

**Disposal:**

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

**2.3. Hazards not otherwise classified**

May cause chemical gastrointestinal burns.

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

| <b>Ingredient</b>   | <b>C.A.S. No.</b> | <b>% by Wt</b>         |
|---------------------|-------------------|------------------------|
| WATER               | 7732-18-5         | 50 - 60 Trade Secret * |
| PHOSPHORIC ACID     | 7664-38-2         | 30 - 40 Trade Secret * |
| POLY(VINYL ALCOHOL) | 9002-89-5         | 5 - 15 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 flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

**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

See Section 11.1. Information on toxicological effects.

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

Not applicable

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

Material will not burn. Use a fire fighting agent suitable for the surrounding fire.

#### 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

No special protective actions for fire-fighters are anticipated.

### SECTION 6: Accidental release measures

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

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

#### 6.2. Environmental precautions

Avoid release to the environment.

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

Contain spill. Collect as much of the spilled material as possible. Place in a metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. Clean up residue with water. Cover, but do not seal for 48 hours. Dispose of collected

material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid prolonged or repeated skin contact. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Do not get in eyes. Keep away from reactive metals (eg. Aluminum, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard.

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

Keep only in original container. Store in a corrosive resistant container with a resistant inner liner. Store away from strong bases.

## 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 |
|-----------------|------------|--------|--------------------------|---------------------|
| PHOSPHORIC ACID | 7664-38-2  | OSHA   | TWA:1 mg/m3              |                     |
| PHOSPHORIC ACID | 7664-38-2  | ACGIH  | TWA:1 mg/m3;STEL:3 mg/m3 |                     |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use in a well-ventilated area.

#### 8.2.2. Personal protective equipment (PPE)

##### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Safety Glasses with side shields

##### Skin/hand protection

See Section 7.1 for additional information on skin protection.

##### Respiratory protection

None required.

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

|  |                                      |
|--|--------------------------------------|
| <b>General Physical Form:</b>                  | Liquid                               |
| <b>Specific Physical Form:</b>                 | Liquid                               |
| <b>Odor, Color, Grade:</b>                     | Slight characteristic odor, Blue     |
| <b>Odor threshold</b>                          | <i>No Data Available</i>             |
| <b>pH</b>                                      | Approximately 1                      |
| <b>Melting point</b>                           | <i>Not Applicable</i>                |
| <b>Boiling Point</b>                           | <i>Not Applicable</i>                |
| <b>Flash Point</b>                             | No flash point                       |
| <b>Evaporation rate</b>                        | <i>No Data Available</i>             |
| <b>Flammability (solid, gas)</b>               | Not Applicable                       |
| <b>Flammable Limits(LEL)</b>                   | <i>No Data Available</i>             |
| <b>Flammable Limits(UEL)</b>                   | <i>No Data Available</i>             |
| <b>Vapor Pressure</b>                          | <=16 psi                             |
| <b>Vapor Density</b>                           | <i>No Data Available</i>             |
| <b>Density</b>                                 | Approximately 1.2 g/ml               |
| <b>Specific Gravity</b>                        | Approximately 1.2 [Ref Std: WATER=1] |
| <b>Solubility in Water</b>                     | Complete                             |
| <b>Solubility- non-water</b>                   | <i>No Data Available</i>             |
| <b>Partition coefficient: n-octanol/ water</b> | <i>No Data Available</i>             |
| <b>Autoignition temperature</b>                | <i>No Data Available</i>             |
| <b>Decomposition temperature</b>               | <i>No Data Available</i>             |
| <b>Viscosity</b>                               | 300 - 800 centipoise                 |
| <b>Molecular weight</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>             |

**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**

None known.

**10.5. Incompatible materials**

Strong bases

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

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

**SECTION 11: Toxicological information**

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

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

### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

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

#### Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

#### Skin Contact:

Corrosive (Skin Burns): Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

#### 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:

May be harmful if swallowed.

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.

#### 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 2,000 - 5,000 mg/kg |
| PHOSPHORIC ACID     | Dermal                         | Rabbit  | LD50 2,740 mg/kg                                      |
| PHOSPHORIC ACID     | Ingestion                      | Rat     | LD50 1,530 mg/kg                                      |
| POLY(VINYL ALCOHOL) | Dermal                         | Rat     | LD50 > 1,000 mg/kg                                    |
| POLY(VINYL ALCOHOL) | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 5 mg/l   |
| POLY(VINYL ALCOHOL) | Ingestion                      | Rat     | LD50 > 20,000 mg/kg                                   |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name            | Species | Value     |
|-----------------|---------|-----------|
| PHOSPHORIC ACID | Rabbit  | Corrosive |



**Serious Eye Damage/Irritation**

| Name            | Species                 | Value     |
|-----------------|-------------------------|-----------|
| PHOSPHORIC ACID | official classification | Corrosive |

**Skin Sensitization**

| Name            | Species | Value          |
|-----------------|---------|----------------|
| PHOSPHORIC ACID | Human   | 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         |
|-----------------|----------|---------------|
| PHOSPHORIC ACID | In Vitro | Not mutagenic |

**Carcinogenicity**

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

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

| Name            | Route     | Value                                  | Species | Test Result         | Exposure Duration |
|-----------------|-----------|--|---------|---------------------|-------------------|
| PHOSPHORIC ACID | Ingestion | Not classified for female reproduction | Rat     | NOAEL 750 mg/kg/day | 2 generation      |
| PHOSPHORIC ACID | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 750 mg/kg/day | 2 generation      |
| PHOSPHORIC ACID | Ingestion | Not classified for development         | Rat     | NOAEL 750 mg/kg/day | 2 generation      |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name            | Route      | Target Organ(s)        | Value  | Species | Test Result         | Exposure Duration     |
|-----------------|------------|------------------------|--|---------|---------------------|-----------------------|
| PHOSPHORIC ACID | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human   | NOAEL Not available | occupational exposure |

**Specific Target Organ Toxicity - repeated exposure**

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

**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 waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility.

**EPA Hazardous Waste Number (RCRA):** D002 (Corrosive)

## SECTION 14: Transport Information

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

## SECTION 15: Regulatory information

### 15.1. US Federal Regulations

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - No      Pressure Hazard - No      Reactivity Hazard - No      Immediate Hazard - Yes      Delayed Hazard - No

#### EPCRA 311/312 Hazard Classifications (effective January 1, 2018):

##### Physical Hazards

Corrosive to metal

##### Health Hazards

Hazard Not Otherwise Classified (HNOC)

Serious eye damage or eye irritation

Skin Corrosion or Irritation

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

The components of this product are in compliance with the new substance notification requirements of CEPA.

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## SECTION 16: Other information

### NFPA Hazard Classification

**Health:** 3 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None  
**Corrosive:** Yes

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

**Document Group:** 08-9514-4  
**Issue Date:** 11/20/17

**Version Number:** 13.01  
**Supersedes Date:** 02/25/16

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**Document Group:** 16-0386-9  
**Issue Date:** 02/05/18

**Version Number:** 16.02  
**Supersedes Date:** 01/19/18

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ ESPE™ CLINPRO™ SEALANT

#### Product Identification Numbers

70-2010-3009-8, 70-2010-3011-4, 70-2010-3148-4, 70-2010-3150-0, 70-2010-3152-6, 70-2010-3154-2, 70-2010-8733-8, 70-2014-1240-3, 70-2014-1241-1, 70-2014-1242-9

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

##### Recommended use

Dental Product, Dental sealant

##### Restrictions on use

For use only by dental professionals

#### 1.3. Supplier's details

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

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard identification

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

#### 2.1. Hazard classification

Serious Eye Damage/Irritation: Category 2B.

Skin Sensitizer: Category 1.

#### 2.2. Label elements

##### Signal word

Warning

**Symbols**

Exclamation mark |

**Pictograms****Hazard Statements**

Causes eye irritation.

May cause an allergic skin reaction.

**Precautionary Statements****Prevention:**

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear protective gloves.

Wash thoroughly after handling.

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

**Response:**

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

If eye irritation persists: Get medical advice/attention.

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.

**Disposal:**

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

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

| <b>Ingredient</b>                                    | <b>C.A.S. No.</b> | <b>% by Wt</b>         |
|--|-------------------|------------------------|
| TRIETHYLENE GLYCOL DIMETHACRYLATE (TEGDMA)           | 109-16-0          | 40 - 50 Trade Secret * |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | 1565-94-2         | 40 - 50 Trade Secret * |
| SILANE TREATED SILICA                                | 68611-44-9        | 5 - 10 Trade Secret *  |
| TETRABUTYLAMMONIUM TETRAFLUOROBORATE                 | 429-42-5          | < 5 Trade Secret *     |
| DIPHENYLIODONIUM HEXAFLUOROPHOSPHATE                 | 58109-40-3        | < 1 Trade Secret *     |
| TRIPHENYLANTIMONY                                    | 603-36-1          | < 0.5 Trade Secret *   |
| ETHYL 4-DIMETHYL AMINO BENZOATE (EDMAB)              | 10287-53-3        | < 0.5 Trade Secret *   |
| TITANIUM DIOXIDE                                     | 13463-67-7        | < 0.5 Trade Secret *   |
| HYDROQUINONE   | 123-31-9          | < 0.05 Trade Secret *  |

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

**SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

**Inhalation:**

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

**Skin Contact:**

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

**Eye Contact:**

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

**If Swallowed:**

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

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

See Section 11.1. Information on toxicological effects.

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

Not applicable

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

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

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

None inherent in this product.

#### Hazardous Decomposition or By-Products

**Substance**

Carbon monoxide  
Carbon dioxide

**Condition**

During Combustion  
During Combustion

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

No special protective actions for fire-fighters are anticipated.

### SECTION 6: Accidental release measures

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

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

#### 6.2. Environmental precautions

Avoid release to the environment.

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

Contain spill. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. 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. Avoid breathing 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. Do not get in eyes.

### 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                             |
|--------------------|------------|--------|--|---|
| HYDROQUINONE       | 123-31-9   | ACGIH  | TWA:1 mg/m3  | A3: Confirmed animal carcin., Dermal Sensitizer |
| HYDROQUINONE       | 123-31-9   | OSHA   | TWA:2 mg/m3  |   |
| TITANIUM DIOXIDE   | 13463-67-7 | ACGIH  | TWA:10 mg/m3   | A4: Not class. as human carcin                  |
| TITANIUM DIOXIDE   | 13463-67-7 | OSHA   | TWA(as total dust):15 mg/m3                                      |   |
| ANTIMONY COMPOUNDS | 603-36-1   | ACGIH  | TWA(as Sb):0.5 mg/m3   |   |
| ANTIMONY COMPOUNDS | 603-36-1   | OSHA   | TWA(as Sb):0.5 mg/m3   |   |
| SILICA, AMORPHOUS  | 68611-44-9 | OSHA   | TWA concentration:0.8 mg/m3;TWA:20 millions of particles/cu. ft. |   |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use in a well-ventilated area.

#### 8.2.2. Personal protective equipment (PPE)

##### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Safety Glasses with side shields

##### Skin/hand protection

See Section 7.1 for additional information on skin protection.

**Respiratory protection**

None required.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|  |   |
|--|---|
| <b>General Physical Form:</b>                  | Liquid                                      |
| <b>Specific Physical Form:</b>                 | Liquid                                      |
| <b>Odor, Color, Grade:</b>                     | Characteristic odor, Clear to slight yellow |
| <b>Odor threshold</b>                          | <i>No Data Available</i>                    |
| <b>pH</b>                                      | <i>No Data Available</i>                    |
| <b>Melting point</b>                           | <i>Not Applicable</i>                       |
| <b>Boiling Point</b>                           | <i>No Data Available</i>                    |
| <b>Flash Point</b>                             | Flash point > 93 °C (200 °F)                |
| <b>Evaporation rate</b>                        | <i>No Data Available</i>                    |
| <b>Flammability (solid, gas)</b>               | Not Applicable                              |
| <b>Flammable Limits(LEL)</b>                   | <i>No Data Available</i>                    |
| <b>Flammable Limits(UEL)</b>                   | <i>No Data Available</i>                    |
| <b>Vapor Pressure</b>                          | <=27 psia [ <i>@ 131.0 °F</i> ]             |
| <b>Vapor Density</b>                           | <i>No Data Available</i>                    |
| <b>Density</b>                                 | 1.2 g/ml                                    |
| <b>Specific Gravity</b>                        | 1.2 [ <i>Ref Std: WATER=1</i> ]             |
| <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>                               | Approximately 1,000 centistoke              |
| <b>Molecular weight</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>                    |

**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**

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.

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 odor; however, no adverse health effects are anticipated.

**Skin Contact:**

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

**Eye Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Ingestion:**

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

**Additional Health Effects:****Carcinogenicity:**

Exposures needed to cause the following health effect(s) are not expected during normal, intended use:

Contains a chemical or chemicals which can cause cancer.

| <b><u>Ingredient</u></b> | <b><u>CAS No.</u></b> | <b><u>Class Description</u></b> | <b><u>Regulation</u></b>                    |
|--------------------------|-----------------------|---------------------------------|---|
| TITANIUM DIOXIDE         | 13463-67-7            | Grp. 2B: Possible human carc.   | International Agency for Research on 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**

| <b><u>Name</u></b> | <b><u>Route</u></b> | <b><u>Species</u></b> | <b><u>Value</u></b> |
|--------------------|---------------------|-----------------------|---------------------|
| Overall product    | Ingestion           | Rat                   | LD50 > 5,000 mg/kg  |
| Overall product    | Dermal              | similar health        | LD50 Not available  |

|  |                                | hazards                |  |
|--|--------------------------------|------------------------|--|
| TRIETHYLENE GLYCOL DIMETHACRYLATE (TEGDMA)           | Dermal                         | Professional judgement | LD50 estimated to be > 5,000 mg/kg       |
| TRIETHYLENE GLYCOL DIMETHACRYLATE (TEGDMA)           | Ingestion                      | Rat                    | LD50 10,837 mg/kg                        |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Ingestion                      |                        | LD50 estimated to be 2,000 - 5,000 mg/kg |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Dermal                         | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| SILANE TREATED SILICA                                | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                       |
| SILANE TREATED SILICA                                | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 0.691 mg/l                        |
| SILANE TREATED SILICA                                | Ingestion                      | Rat                    | LD50 > 5,110 mg/kg                       |
| DIPHENYLIODONIUM HEXAFLUOROPHOSPHATE                 | Ingestion                      | Rat                    | LD50 32 mg/kg                            |
| TRIPHENYLANTIMONY                                    | Inhalation-Dust/Mist           |                        | LC50 estimated to be 1 - 5 mg/l          |
| TRIPHENYLANTIMONY                                    | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                       |
| TRIPHENYLANTIMONY                                    | Ingestion                      | Rat                    | LD50 82.5 mg/kg                          |
| ETHYL 4-DIMETHYL AMINO BENZOATE (EDMAB)              | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                       |
| ETHYL 4-DIMETHYL AMINO BENZOATE (EDMAB)              | Ingestion                      | Rat                    | LD50 > 2,000 mg/kg                       |
| TITANIUM DIOXIDE                                     | Dermal                         | Rabbit                 | LD50 > 10,000 mg/kg                      |
| TITANIUM DIOXIDE                                     | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 6.82 mg/l                         |
| TITANIUM DIOXIDE                                     | Ingestion                      | Rat                    | LD50 > 10,000 mg/kg                      |
| HYDROQUINONE   | Dermal                         | Rat                    | LD50 > 4,800 mg/kg                       |
| HYDROQUINONE   | Ingestion                      | Rat                    | LD50 302 mg/kg                           |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name   | Species          | Value                     |
|--|------------------|---------------------------|
| TRIETHYLENE GLYCOL DIMETHACRYLATE (TEGDMA)           | Guinea pig       | Mild irritant             |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Not available    | Minimal irritation        |
| SILANE TREATED SILICA                                | Rabbit           | No significant irritation |
| DIPHENYLIODONIUM HEXAFLUOROPHOSPHATE                 | Rabbit           | No significant irritation |
| TRIPHENYLANTIMONY                                    | Rabbit           | Minimal irritation        |
| ETHYL 4-DIMETHYL AMINO BENZOATE (EDMAB)              | Rabbit           | No significant irritation |
| TITANIUM DIOXIDE                                     | Rabbit           | No significant irritation |
| HYDROQUINONE   | Human and animal | Minimal irritation        |

#### Serious Eye Damage/Irritation

| Name   | Species                | Value                     |
|--|------------------------|---------------------------|
| TRIETHYLENE GLYCOL DIMETHACRYLATE (TEGDMA)           | Professional judgement | Moderate irritant         |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Not available          | Moderate irritant         |
| SILANE TREATED SILICA                                | Rabbit                 | No significant irritation |
| DIPHENYLIODONIUM HEXAFLUOROPHOSPHATE                 | Rabbit                 | Mild irritant             |
| TRIPHENYLANTIMONY                                    | Rabbit                 | Mild irritant             |
| ETHYL 4-DIMETHYL AMINO BENZOATE (EDMAB)              | Rabbit                 | Mild irritant             |
| TITANIUM DIOXIDE                                     | Rabbit                 | No significant irritation |
| HYDROQUINONE   | Human                  | Corrosive                 |

**Skin Sensitization**

| Name   | Species          | Value          |
|--|------------------|----------------|
| TRIETHYLENE GLYCOL DIMETHACRYLATE (TEGDMA)           | Human and animal | Sensitizing    |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Guinea pig       | Sensitizing    |
| SILANE TREATED SILICA                                | Human and animal | Not classified |
| TITANIUM DIOXIDE                                     | Human and animal | Not classified |
| HYDROQUINONE   | 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  |
|--|----------|--|
| TRIETHYLENE GLYCOL DIMETHACRYLATE (TEGDMA)           | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| SILANE TREATED SILICA                                | In Vitro | Not mutagenic  |
| DIPHENYLIODONIUM HEXAFLUOROPHOSPHATE                 | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| TITANIUM DIOXIDE                                     | In Vitro | Not mutagenic  |
| TITANIUM DIOXIDE                                     | In vivo  | Not mutagenic  |
| HYDROQUINONE   | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| HYDROQUINONE   | In vivo  | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name                                       | Route         | Species                 | Value  |
|--|---------------|-------------------------|--|
| TRIETHYLENE GLYCOL DIMETHACRYLATE (TEGDMA) | Dermal        | Mouse                   | Not carcinogenic   |
| SILANE TREATED SILICA                      | Not Specified | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| TITANIUM DIOXIDE                           | Ingestion     | Multiple animal species | Not carcinogenic   |
| TITANIUM DIOXIDE                           | Inhalation    | Rat                     | Carcinogenic   |
| HYDROQUINONE                               | Dermal        | Mouse                   | Not carcinogenic   |
| HYDROQUINONE                               | Ingestion     | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

| Name                                       | Route     | Value                                  | Species | Test Result       | Exposure Duration |
|--|-----------|--|---------|-------------------|-------------------|
| 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      |
| BISPHENOL A DIGLYCIDYL ETHER               | Ingestion | Not classified for female reproduction | Mouse   | NOAEL 0.8         | prematuring &     |

|  |           |  |       |                       |                                |
|--|-----------|--|-------|-----------------------|--------------------------------|
| DIMETHACRYLATE (BISGMA)                              |           |  |       | mg/kg/day             | during gestation               |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Ingestion | Not classified for male reproduction   | Mouse | NOAEL 0.8 mg/kg/day   | prematuring & during gestation |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Ingestion | Not classified for development         | Mouse | NOAEL 0.8 mg/kg/day   | prematuring & during gestation |
| SILANE TREATED SILICA                                | Ingestion | Not classified for female reproduction | Rat   | NOAEL 509 mg/kg/day   | 1 generation                   |
| SILANE TREATED SILICA                                | Ingestion | Not classified for male reproduction   | Rat   | NOAEL 497 mg/kg/day   | 1 generation                   |
| SILANE TREATED SILICA                                | Ingestion | Not classified for development         | Rat   | NOAEL 1,350 mg/kg/day | during organogenesis           |
| HYDROQUINONE   | Ingestion | Not classified for female reproduction | Rat   | NOAEL 150 mg/kg/day   | 2 generation                   |
| HYDROQUINONE   | Ingestion | Not classified for male reproduction   | Rat   | NOAEL 150 mg/kg/day   | 2 generation                   |
| HYDROQUINONE   | Ingestion | Not classified for development         | Rat   | NOAEL 100 mg/kg/day   | during organogenesis           |

### 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 |                   |
| HYDROQUINONE                         | Ingestion  | nervous system         | May cause damage to organs | Rat           | NOAEL Not available  | not applicable    |
| HYDROQUINONE                         | Ingestion  | kidney and/or bladder  | Not classified             | Rat           | NOAEL 400 mg/kg      | not applicable    |

#### Specific Target Organ Toxicity - repeated exposure

| Name   | Route      | Target Organ(s)   | Value  | Species | Test Result         | Exposure Duration              |
|--|------------|---|--|---------|---------------------|--------------------------------|
| TRIETHYLENE GLYCOL DIMETHACRYLATE (TEGDMA)           | Dermal     | kidney and/or bladder   blood                                     | Not classified   | Mouse   | NOAEL 833 mg/kg/day | 78 weeks                       |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Ingestion  | endocrine system   liver   nervous system   kidney and/or bladder | Not classified   | Mouse   | NOAEL 0.8 mg/kg/day | prematuring & during gestation |
| SILANE TREATED SILICA                                | Inhalation | respiratory system   silicosis                                    | Not classified   | Human   | NOAEL Not available | occupational exposure          |
| TITANIUM DIOXIDE                                     | Inhalation | respiratory system  | Some positive data exist, but the data are not sufficient for classification | Rat     | LOAEL 0.01 mg/l     | 2 years                        |
| TITANIUM DIOXIDE                                     | Inhalation | pulmonary fibrosis  | Not classified   | Human   | NOAEL Not available | occupational exposure          |
| HYDROQUINONE   | Ingestion  | blood   | Not classified   | Rat     | NOAEL Not available | 40 days                        |
| HYDROQUINONE   | Ingestion  | bone marrow   liver   | Not classified   | Rat     | NOAEL Not available | 9 weeks                        |
| HYDROQUINONE   | Ingestion  | kidney and/or bladder   | Not classified   | Rat     | LOAEL 50 mg/kg/day  | 15 months                      |
| HYDROQUINONE   | Ocular     | eyes  | Not classified   | Human   | NOAEL Not available | occupational exposure          |

### Aspiration Hazard

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

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

## SECTION 12: Ecological information

### Ecotoxicological information

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

### Chemical fate information

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

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

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

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility.

**EPA Hazardous Waste Number (RCRA):** Not regulated

## SECTION 14: Transport Information

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

## SECTION 15: Regulatory information

### 15.1. US Federal Regulations

Contact 3M for more information.

#### EPCRA 311/312 Hazard Classifications:

| Physical Hazards |
|------------------|
| Not applicable   |

| Health Hazards                       |
|--------------------------------------|
| Serious eye damage or eye irritation |

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

The components of this product are in compliance with the new substance notification requirements of CEPA.

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

#### 15.4. International Regulations

Contact 3M for more information.

|   |
|---|
| This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200. |
|---|

### SECTION 16: Other information

#### NFPA Hazard Classification

Health: 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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