### **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 075038476

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

075038526

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

075038351 075038385 075038393 075038401 075038427 075038443 075038450 075038468



### **Safety Data Sheet**

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| Document Group: | 05-6374-2 | Version Number:  | 26.00    |
|-----------------|-----------|------------------|----------|
| Issue Date:     | 02/25/16  | Supercedes Date: | 11/26/14 |

### **SECTION 1: Identification**

**1.1. Product identifier** 

3303P 3M<sup>TM</sup> ESPE<sup>TM</sup> VITREMER GLASS IONOMER PRIMER.

**Product Identification Numbers** LE-F100-0082-7, 70-2010-0431-7, 70-2010-0518-1, 70-2010-1333-4, 70-2010-1793-9, 70-2010-8916-9

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

Recommended use Dental Product, Primer Restrictions on use For use only by dental professionals

| 3M                                      |
|---|
| Oral Care Solutions Division            |
| 3M Center, St. Paul, MN 55144-1000, USA |
| 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

Flammable Liquid: Category 2. Acute Toxicity (oral): Category 4. Serious Eye Damage/Irritation: Category 2B. Skin Sensitizer: Category 1. Specific Target Organ Toxicity (central nervous system): Category 3.

2.2. Label elements Signal word Danger

#### Symbols

Flame | Exclamation mark |

#### **Pictograms**



Hazard Statements Highly flammable liquid and vapor.

Harmful if swallowed. Causes eye irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness.

#### **Precautionary Statements**

#### **Prevention:**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting equipment. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only in a well-ventilated area. Wear protective gloves and eye/face protection. Wear protective gloves. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

#### **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. If eye irritation persists: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Call a POISON CENTER or doctor/physician if you feel unwell. In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to

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. Keep container tightly closed.

#### **Disposal:**

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

## **2.3. Hazards not otherwise classified** None.

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

| Ingredient                              | C.A.S. No. | % by Wt                |
|---|------------|------------------------|
| 2-HYDROXYETHYL METHACRYLATE             | 868-77-9   | 45 - 55 Trade Secret * |
| ETHYL ALCOHOL                           | 64-17-5    | 35 - 45 Trade Secret * |
| COPOLYMER OF ITACONIC AND ACRYLIC ACIDS | 25948-33-8 | 10 - 15 Trade Secret * |
| DIPHENYLIODONIUM HEXAFLUOROPHOSPHATE    | 58109-40-3 | < 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:

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 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 | on or By-Products |
|-------------------------|-------------------|
| <i>a</i> <b>.</b> .     |                   |

| <u>Substance</u> |  |  |  |  |
|------------------|--|--|--|--|
| Carbon monoxide  |  |  |  |  |
| Carbon dioxide   |  |  |  |  |

<u>Condition</u> 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.

### **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. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. 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

Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR - AFFF type foam is recommended. 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.

### **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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wash thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

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

Store in a well-ventilated place. Keep container tightly closed. Store away from heat. Store away from acids. Store away from strong bases. 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                              | <b>Additional Comments</b> |
|---------------|------------|--------|---|----------------------------|
| ETHYL ALCOHOL | 64-17-5    | ACGIH  | STEL:1000 ppm                           | A3: Confirmed animal       |
|               |            |        |   | carcin.                    |
| ETHYL ALCOHOL | 64-17-5    | OSHA   | TWA:1900 mg/m3(1000 ppn                 | n)                         |
|               |            |        | • |                            |

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

|   | - open men                                     |
|---|--|
| General Physical Form:                  | Liquid   |
| Specific Physical Form:                 | Liquid   |
| Odor, Color, Grade:                     | Clear to yellow in color, slight acrylate odor |
| Odor threshold                          | No Data Available                              |
| рН                                      | 2.9 - 4  |
| Melting point                           | Not Applicable                                 |
| Boiling Point                           | >=67 °C  |
| Flash Point                             | 62 °F [Test Method: Closed Cup]                |
| Evaporation rate                        | No Data Available                              |
| Flammability (solid, gas)               | Not Applicable                                 |
| Flammable Limits(LEL)                   | No Data Available                              |
| Flammable Limits(UEL)                   | No Data Available                              |
| Vapor Pressure                          | <=27 psia [@ 131 °F]                           |
| Vapor Density                           | No Data Available                              |
| Density                                 | No Data Available                              |
| Specific Gravity                        | 1.03 [ <i>Ref Std:</i> WATER=1]                |
| Solubility in Water                     | Moderate                                       |
| Solubility- non-water                   | No Data Available                              |
| Partition coefficient: n-octanol/ water | No Data Available                              |
| Autoignition temperature                | No Data Available                              |
| Decomposition temperature               | No Data Available                              |
| Viscosity                               | 9 - 13 centistoke                              |
| Molecular weight                        | No Data Available                              |
| Percent volatile                        | No Data Available                              |
|   |  |

### **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

#### 3303P 3MTM ESPETM VITREMER GLASS IONOMER PRIMER. 02/25/16

Hazardous polymerization will not occur.

10.4. Conditions to avoid Heat Sparks and/or flames

**10.5. Incompatible materials** Strong acids Strong bases 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.

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.

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.

#### **Eve Contact:**

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

### **Ingestion:**

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

May cause additional health effects (see below).

#### **Additional Health Effects:**

#### Single exposure may cause target organ effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

#### **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                         | Ingestion   |           | No data available; calculated ATE 300 - 2,000 mg/kg |
| ETHYL ALCOHOL                           | Dermal      | Rabbit    | LD50 > 15,800 mg/kg                                 |
| ETHYL ALCOHOL                           | Inhalation- | Rat       | LC50 124.7 mg/l                                     |
|   | Vapor (4    |           |   |
|   | hours)      |           |   |
| ETHYL ALCOHOL                           | Ingestion   | Rat       | LD50 17,800 mg/kg                                   |
| 2-HYDROXYETHYL METHACRYLATE             | Dermal      | Rabbit    | LD50 > 5,000 mg/kg                                  |
| 2-HYDROXYETHYL METHACRYLATE             | Ingestion   | Rat       | LD50 5,564 mg/kg                                    |
| COPOLYMER OF ITACONIC AND ACRYLIC ACIDS | Dermal      | Professio | LD50 estimated to be $> 5,000 \text{ mg/kg}$        |
|   |             | nal       |   |
|   |             | judgeme   |   |
|   |             | nt        |   |
| COPOLYMER OF ITACONIC AND ACRYLIC ACIDS | Ingestion   | Rat       | LD50 > 5,000 mg/kg                                  |
| DIPHENYLIODONIUM HEXAFLUOROPHOSPHATE    | Ingestion   | Rat       | LD50 32 mg/kg                                       |
| ATE — coute toxicity estimate           |             |           |   |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                                 | Species | Value                     |
|--------------------------------------|---------|---------------------------|
| ETHYL ALCOHOL                        | Rabbit  | No significant irritation |
| 2-HYDROXYETHYL METHACRYLATE          | Rabbit  | Minimal irritation        |
| DIPHENYLIODONIUM HEXAFLUOROPHOSPHATE | Rabbit  | No significant irritation |

#### **Serious Eye Damage/Irritation**

| Name                                 | Species | Value             |
|--------------------------------------|---------|-------------------|
|                                      |         |                   |
| ETHYL ALCOHOL                        | Rabbit  | Moderate irritant |
| 2-HYDROXYETHYL METHACRYLATE          | Rabbit  | Moderate irritant |
| DIPHENYLIODONIUM HEXAFLUOROPHOSPHATE | Rabbit  | Mild irritant     |

#### **Skin Sensitization**

| Name                        | Species | Value  |
|-----------------------------|---------|--|
| ETHYL ALCOHOL               | Human   | Some positive data exist, but the data are not |
|                             |         | sufficient for classification                  |
| 2-HYDROXYETHYL METHACRYLATE | Human   | Sensitizing                                    |
|                             | and     |  |
|                             | animal  |  |

#### **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  |
|--------------------------------------|----------|--|
| ETHYL ALCOHOL                        | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| ETHYL ALCOHOL                        | In vivo  | 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 |
| DIPHENYLIODONIUM HEXAFLUOROPHOSPHATE | In Vitro | Some positive data exist, but the data are not sufficient for classification |

### Carcinogenicity

| Name          | Route     | Species  | Value  |
|---------------|-----------|----------|--|
| ETHYL ALCOHOL | Ingestion | Multiple | Some positive data exist, but the data are not |
|               |           | animal   | sufficient for classification                  |
|               |           | species  |  |

#### **Reproductive Toxicity**

### **Reproductive and/or Developmental Effects**

| Name                        | Route      | Value  | Species | Test Result              | Exposure<br>Duration               |
|-----------------------------|------------|--|---------|--------------------------|------------------------------------|
| ETHYL ALCOHOL               | Inhalation | Not toxic to development   | Rat     | NOAEL 38<br>mg/l         | during gestation                   |
| ETHYL ALCOHOL               | Ingestion  | Some positive developmental data exist,<br>but the data are not sufficient for<br>classification | Rat     | NOAEL 5,200<br>mg/kg/day | premating &<br>during<br>gestation |
| 2-HYDROXYETHYL METHACRYLATE | Ingestion  | Not toxic to female reproduction   | Rat     | NOAEL 1,000<br>mg/kg/day | premating &<br>during<br>gestation |
| 2-HYDROXYETHYL METHACRYLATE | Ingestion  | Not toxic to male reproduction   | Rat     | NOAEL 1,000<br>mg/kg/day | 49 days                            |
| 2-HYDROXYETHYL METHACRYLATE | Ingestion  | Not toxic to development   | Rat     | NOAEL 1,000<br>mg/kg/day | premating &<br>during<br>gestation |

### Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name  | Route      | Target Organ(s)                      | Value  | Species                       | Test Result             | Exposure<br>Duration |
|---|------------|--------------------------------------|--|-------------------------------|-------------------------|----------------------|
| ETHYL ALCOHOL                                 | Inhalation | central nervous<br>system depression | May cause drowsiness or dizziness  | Human                         | LOAEL 2.6<br>mg/l       | 30 minutes           |
| ETHYL ALCOHOL                                 | Inhalation | respiratory irritation               | Some positive data exist, but the data are not sufficient for classification | Human                         | LOAEL 9.4<br>mg/l       | not available        |
| ETHYL ALCOHOL                                 | Ingestion  | central nervous<br>system depression | May cause drowsiness or dizziness  | Multiple<br>animal<br>species | NOAEL not<br>available  |                      |
| ETHYL ALCOHOL                                 | Ingestion  | kidney and/or<br>bladder             | Some positive data exist, but the data are not sufficient for classification | Dog                           | NOAEL<br>3,000 mg/kg    |                      |
| COPOLYMER OF<br>ITACONIC AND<br>ACRYLIC ACIDS | Ingestion  | nervous system                       | Some positive data exist, but the data are not sufficient for classification | Rat                           | NOAEL<br>5,000 mg/kg    |                      |
| DIPHENYLIODONIUM<br>HEXAFLUOROPHOSPH<br>ATE   | Inhalation | respiratory irritation               | Some positive data exist, but the data are not sufficient for classification | Not<br>available              | Irritation<br>Equivocal |                      |

#### Specific Target Organ Toxicity - repeated exposure

| Name          | Route      | Target Organ(s) | Value                             | Species | Test Result | Exposure<br>Duration |
|---------------|------------|-----------------|-----------------------------------|---------|-------------|----------------------|
| ETHYL ALCOHOL | Inhalation | liver           | Some positive data exist, but the | Rabbit  | LOAEL 124   | 365 days             |

|               |            |  | data are not sufficient for classification                                   |     | mg/l                        |          |
|---------------|------------|--|--|-----|-----------------------------|----------|
| ETHYL ALCOHOL | Inhalation | hematopoietic<br>system   immune<br>system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 25<br>mg/l            | 14 days  |
| ETHYL ALCOHOL | Ingestion  | liver                                      | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL<br>8,000<br>mg/kg/day | 4 months |
| ETHYL ALCOHOL | Ingestion  | kidney and/or<br>bladder                   | Some positive data exist, but the data are not sufficient for classification | Dog | NOAEL<br>3,000<br>mg/kg/day | 7 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.

Incinerate in a permitted waste incineration facility.

#### EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

### **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 - Yes Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

### **15.2. State Regulations**

Contact 3M for more information.

### **15.3.** Chemical Inventories

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

Contact 3M for more information.

#### **15.4. International Regulations**

Contact 3M for more information.

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

### **SECTION 16: Other information**

#### NFPA Hazard Classification

Health: 2 Flammability: 3 Instability: 3 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.

| Document Group: | 05-6374-2 | Version Number:  | 26.00    |
|-----------------|-----------|------------------|----------|
| Issue Date:     | 02/25/16  | Supercedes Date: | 11/26/14 |

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### Safety Data Sheet

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|-----------------|-----------|------------------|----------|
| Issue Date:     | 11/09/17  | Supercedes Date: | 10/17/17 |

### **SECTION 1: Identification**

#### 1.1. Product identifier

3M<sup>™</sup> ESPE<sup>™</sup> VITREMER<sup>™</sup> CORE BUILDUP/RESTORATIVE POWDER 3303P

#### **Product Identification Numbers**

70-2010-0424-2, 70-2010-0426-7, 70-2010-2396-0, 70-2010-2397-8, 70-2010-2398-6, 70-2010-2399-4, 70-2010-2400-0, 70-2010-2401-8, 70-2010-2402-6, 70-2010-5156-5, 70-2010-8908-6, 70-2010-8909-4, 70-2010-8910-2, 70-2010-8911-0, 70-2010-8912-8, 70-2010-8913-6, 70-2010-8914-4, 70-2010-8915-1, 70-2014-1066-2, 70-2014-1067-0, 70-2014-1068-8, 70-2014-1069-6, 70-2014-1070-4, 70-2014-1071-2, 70-2014-1072-0, 70-2014-1073-8, 70-2014-1106-6

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

Recommended use Dental Product, Glass Ionomer Restorative Restrictions on use For use only by dental professionals

| 1.3. Supplier's details |   |
|-------------------------|---|
| MANUFACTURER:           | 3M                                      |
| <b>DIVISION:</b>        | 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

Respiratory Sensitizer: Category 1. Skin Sensitizer: Category 1.

#### 2.2. Label elements

11/09/17

#### Signal word Danger

C

Symbols Health Hazard |

### Pictograms



### **Hazard Statements**

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

#### **Precautionary Statements**

#### **Prevention:**

Avoid breathing dust/fume/gas/mist/vapors/spray. In case of inadequate ventilation wear respiratory protection. Wear protective gloves. Contaminated work clothing must not be allowed out of the workplace.

#### **Response:**

IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. 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**

| Ingredient           | C.A.S. No. | % by Wt                  |
|----------------------|------------|--------------------------|
| SILANE TREATED GLASS | None       | 90 - 99.9 Trade Secret * |
| POTASSIUM PERSULFATE | 7727-21-1  | < 0.15 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 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

| <u>Substance</u> |  |
|------------------|--|
| 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

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

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Avoid breathing 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. A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove.

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#### 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 |
|----------------------|------------|--------|------------------------------|---------------------|
| PERSULFATE COMPOUNDS | 7727-21-1  | ACGIH  | TWA(as persulfate):0.1 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

| General Physical Form:    | Solid             |
|---------------------------|-------------------|
| Specific Physical Form:   | Coarse Powder     |
| Odor, Color, Grade:       | White, odorless   |
| Odor threshold            | No Data Available |
| рН                        | Not Applicable    |
| Melting point             | No Data Available |
| Boiling Point             | Not Applicable    |
| Flash Point               | No flash point    |
| Evaporation rate          | Not Applicable    |
| Flammability (solid, gas) | Not Classified    |
| Flammable Limits(LEL)     | Not Applicable    |
| Flammable Limits(UEL)     | Not Applicable    |

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Vapor Pressure Vapor Density Density Specific Gravity Solubility In Water Solubility- non-water Partition coefficient: n-octanol/ water Autoignition temperature Decomposition temperature Decomposition temperature Viscosity Molecular weight Volatile Organic Compounds Percent volatile VOC Less H2O & Exempt Solvents Not Applicable Not Applicable 2.8 g/cm3 2.8 [Ref Std:WATER=1] Not Applicable No Data Available No Data Available No Data Available Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable

### **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. 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.

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#### 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.

Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

#### **Skin Contact:**

Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.

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

#### Eye Contact:

Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.

#### **Ingestion:**

May be harmful if swallowed.

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

#### **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 ATE2,000 - 5,000 mg/kg |
| SILANE TREATED GLASS | Dermal      |         | LD50 estimated to be > 5,000 mg/kg                   |
| SILANE TREATED GLASS | Ingestion   |         | LD50 estimated to be 2,000 - 5,000 mg/kg             |
| POTASSIUM PERSULFATE | Dermal      | Rabbit  | LD50 > 10,000 mg/kg                                  |
| POTASSIUM PERSULFATE | Inhalation- | Rat     | LC50 > 10.7 mg/l                                     |
|                      | Dust/Mist   |         |  |
|                      | (4 hours)   |         |  |
| POTASSIUM PERSULFATE | Ingestion   | Rat     | LD50 1,130 mg/kg                                     |

ATE = acute toxicity estimate

#### **Skin Corrosion/Irritation**

| Name                 | Species   | Value                     |
|----------------------|-----------|---------------------------|
|                      |           |                           |
| SILANE TREATED GLASS | Professio | No significant irritation |
|                      | nal       |                           |
|                      | judgeme   |                           |
|                      | nt        |                           |

#### Serious Eye Damage/Irritation

| Name                 | Species   | Value                     |
|----------------------|-----------|---------------------------|
|                      |           |                           |
| SILANE TREATED GLASS | Professio | No significant irritation |
|                      | nal       |                           |
|                      | judgeme   |                           |
|                      | nt        |                           |

#### **Skin Sensitization**

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

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#### **Respiratory Sensitization**

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

#### Germ Cell Mutagenicity

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

#### 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**

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

#### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

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

#### Specific Target Organ Toxicity - repeated exposure

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.

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.

#### 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 |
|----------|---------|
|          |         |

Not applicable

| Health Hazards |  |
|----------------|--|
| Not applicable |  |

#### 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.

| <b>Document Group:</b> | 05-6398-1 | Version Number:  | 20.02    |
|------------------------|-----------|------------------|----------|
| Issue Date:            | 11/09/17  | Supercedes Date: | 10/17/17 |

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