



**3M General Offices**  
3M Center  
St. Paul, MN 55144-1000  
1-800-364-3577 or (651) 737-6501 (24 hours)

## Safety Data Sheet

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Purchase Order #: 918115  
Customer Number: 0096029960

SDS Coordinator  
DENTAL HEALTH PRODUCTS INC  
2614 N SUGAR BUSH RD  
NEW FRANKEN, WI 54229-9346  
USA

Dear SDS Coordinator

Enclosed is the Safety Data Sheet (SDS)\* for the product that your company recently purchased from 3M.

Please forward the attached document(s) to the individual in your organization responsible for hazard communication.

If you are a distributor and resell this product, OSHA and EPA require that you transmit this SDS information to your customers at the time of first shipment or whenever you receive revised SDSs from 3M.

3M SDSs are available over the Internet at [www.3m.com/MSDSSearch](http://www.3m.com/MSDSSearch).

3M is committed to meeting our customer requirements. Please contact your 3M customer service or sales representative if you have any questions. If you do not know whom to contact, please call the 3M Product Information Center at 1-800-364-3577.

**If you are not currently receiving 3M SDSs by e-mail and would like to do so, please contact our eSDS Administrator at [emsdsadmin@mmm.com](mailto:emsdsadmin@mmm.com)**

\*An Article Information Sheet (AIS) or Article Information Letter (AIL) may be enclosed in place of an SDS if the product is an article which does not require an SDS under the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.



## Safety Data Sheet

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**Version Number:** 29.04  
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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ RelyX™ Ceramic Primer (2721)

#### Product Identification Numbers

70-2010-1748-3, 70-2010-2492-7, 70-2014-2053-9  
7000003086

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

##### Recommended use

Dental Product, Primer

##### 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

Flammable Liquid: Category 2.

Serious Eye Damage/Irritation: Category 2A.

Specific Target Organ Toxicity (repeated exposure): Category 2.

#### 2.2. Label elements

##### Signal word

Danger

**Symbols**

Flame | Exclamation mark | Health Hazard |

**Pictograms****Hazard Statements**

Highly flammable liquid and vapor.

Causes serious eye irritation.

May cause damage to organs through prolonged or repeated exposure:  
respiratory system |**Precautionary Statements****Prevention:**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Take precautionary measures against static discharge.

Keep container tightly closed.

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

Wear protective gloves and eye/face protection.

Wash thoroughly after handling.

**Response:**

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.

Get medical advice/attention 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 extinguish.

**Storage:**

Store in a well-ventilated place. Keep cool.

**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>         |
|---------------------------------------|-------------------|------------------------|
| ETHYL ALCOHOL                         | 64-17-5           | 70 - 80 Trade Secret * |
| WATER                                 | 7732-18-5         | 20 - 30 Trade Secret * |
| 3-METHACRYLOXYPROPYLTRIMETHOXY SILANE | 2530-85-0         | < 2 Trade Secret *     |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation:**

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

**Skin Contact:**

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

**Eye Contact:**

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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

Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

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

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

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

### Hazardous Decomposition or By-Products

**Substance**

Carbon monoxide

Carbon dioxide

**Condition**

During Combustion

During Combustion

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

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

## SECTION 6: Accidental release measures

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

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. 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 that is resistant to polar solvents. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with water. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid prolonged or repeated skin contact. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. 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 cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from oxidizing agents.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| <b>Ingredient</b> | <b>C.A.S. No.</b> | <b>Agency</b> | <b>Limit type</b>        | <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 ppm) |                              |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

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

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use in a well-ventilated area.

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

##### Eye/face protection

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

Safety Glasses with side shields

##### Skin/hand protection

See Section 7.1 for additional information on skin protection.

##### Respiratory protection

None required.

## SECTION 9: Physical and chemical properties

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

#### Appearance

Physical state

Liquid

Color

Colorless

Specific Physical Form:

Liquid

Odor

Characteristic Odor

Odor threshold

*No Data Available*

pH

*Not Applicable*

Melting point

*Not Applicable*

Boiling Point

180 °F

Flash Point

70 °F [*Test Method: Closed Cup*]

Evaporation rate

*No Data Available*

Flammability (solid, gas)

Not Applicable

Flammable Limits(LEL)

3.3 % [*Details: for Ethanol*]

Flammable Limits(UEL)

19 % [*Details: for Ethanol*]

Vapor Pressure

55 mmHg [*@ 25 °C*]

Vapor Density

*No Data Available*

Density

0.86 g/ml

Specific Gravity

0.86 [*Ref Std: WATER=1*]

Solubility in Water

Complete

Solubility- non-water

*No Data Available*

Partition coefficient: n-octanol/ water

*Not Applicable*

Autoignition temperature

*No Data Available*

Decomposition temperature

*No Data Available*

Viscosity

1.1 centipoise

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

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat

Sparks and/or flames

### 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.

### 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.

##### Eye Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

##### Ingestion:

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

#### Additional Health Effects:

##### Prolonged or repeated exposure may cause target organ effects:

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

#### 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 >5,000 mg/kg |
| ETHYL ALCOHOL                        | Dermal                         | Rabbit | LD50 > 15,800 mg/kg                            |
| ETHYL ALCOHOL                        | Inhalation-Vapor (4 hours)     | Rat    | LC50 124.7 mg/l                                |
| ETHYL ALCOHOL                        | Ingestion                      | Rat    | LD50 17,800 mg/kg                              |
| 3-METHACRYLOXYPROPYLTRIMETHOXYSilANE | Dermal                         | Rabbit | LD50 > 20,900 mg/kg                            |
| 3-METHACRYLOXYPROPYLTRIMETHOXYSilANE | Inhalation-Dust/Mist (4 hours) | Rat    | LC50 > 2.28 mg/l                               |
| 3-METHACRYLOXYPROPYLTRIMETHOXYSilANE | Ingestion                      | Rat    | LD50 > 5,225 mg/kg                             |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name                                 | Species | Value                     |
|--------------------------------------|---------|---------------------------|
| ETHYL ALCOHOL                        | Rabbit  | No significant irritation |
| 3-METHACRYLOXYPROPYLTRIMETHOXYSilANE | Rabbit  | No significant irritation |

### Serious Eye Damage/Irritation

| Name                                 | Species | Value           |
|--------------------------------------|---------|-----------------|
| ETHYL ALCOHOL                        | Rabbit  | Severe irritant |
| 3-METHACRYLOXYPROPYLTRIMETHOXYSilANE | Rabbit  | Mild irritant   |

### Skin Sensitization

| Name                                 | Species    | Value          |
|--------------------------------------|------------|----------------|
| ETHYL ALCOHOL                        | Human      | Not classified |
| 3-METHACRYLOXYPROPYLTRIMETHOXYSilANE | Guinea pig | Not classified |

### Respiratory Sensitization

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

### Germ Cell Mutagenicity

| Name                                 | Route    | Value  |
|--------------------------------------|----------|--|
| 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 |
| 3-METHACRYLOXYPROPYLTRIMETHOXYSilANE | In Vitro | Not mutagenic  |
| 3-METHACRYLOXYPROPYLTRIMETHOXYSilANE | In vivo  | Not mutagenic  |

### Carcinogenicity

| Name          | Route     | Species                 | Value  |
|---------------|-----------|-------------------------|--|
| ETHYL ALCOHOL | 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            |
|---------------|------------|--------------------------------|---------|-----------------------|------------------------------|
| ETHYL ALCOHOL | Inhalation | Not classified for development | Rat     | NOAEL 38 mg/l         | during gestation             |
| ETHYL ALCOHOL | Ingestion  | Not classified for development | Rat     | NOAEL 5,200 mg/kg/day | premating & during gestation |
| 3-            | Ingestion  | Not classified for development | Rat     | NOAEL 2,100           | during                       |



|                                     |  |  |  |           |               |
|-------------------------------------|--|--|--|-----------|---------------|
| METHACRYLOXYPROPYLTRIMETHOXYLSILANE |  |  |  | mg/kg/day | organogenesis |
|-------------------------------------|--|--|--|-----------|---------------|

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

| Name          | Route      | Target Organ(s)                   | Value  | Species                 | Test Result         | Exposure Duration |
|---------------|------------|-----------------------------------|--|-------------------------|---------------------|-------------------|
| ETHYL ALCOHOL | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | LOAEL 9.4 mg/l      | not available     |
| ETHYL ALCOHOL | Inhalation | central nervous system depression | Not classified   | Human and animal        | NOAEL not available |                   |
| ETHYL ALCOHOL | Ingestion  | central nervous system depression | Not classified   | Multiple animal species | NOAEL not available |                   |
| ETHYL ALCOHOL | Ingestion  | kidney and/or bladder             | Not classified   | Dog                     | NOAEL 3,000 mg/kg   |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name                                  | Route      | Target Organ(s)   | Value  | Species | Test Result           | Exposure Duration |
|---------------------------------------|------------|---|--|---------|-----------------------|-------------------|
| ETHYL ALCOHOL                         | Inhalation | liver   | Some positive data exist, but the data are not sufficient for classification | Rabbit  | LOAEL 124 mg/l        | 365 days          |
| ETHYL ALCOHOL                         | Inhalation | hematopoietic system   immune system                        | Not classified   | Rat     | NOAEL 25 mg/l         | 14 days           |
| ETHYL ALCOHOL                         | Ingestion  | liver   | Some positive data exist, but the data are not sufficient for classification | Rat     | LOAEL 8,000 mg/kg/day | 4 months          |
| ETHYL ALCOHOL                         | Ingestion  | kidney and/or bladder                                       | Not classified   | Dog     | NOAEL 3,000 mg/kg/day | 7 days            |
| 3-METHACRYLOXYPROPYLTRIMETHOXYLSILANE | Dermal     | skin   liver   kidney and/or bladder                        | Not classified   | Rabbit  | NOAEL 2,100 mg/kg/day | 17 days           |
| 3-METHACRYLOXYPROPYLTRIMETHOXYLSILANE | Inhalation | respiratory system  | May cause damage to organs though prolonged or repeated exposure             | Rat     | LOAEL 0.05 mg/l       | 14 weeks          |
| 3-METHACRYLOXYPROPYLTRIMETHOXYLSILANE | Inhalation | liver   hematopoietic system   eyes   kidney and/or bladder | Not classified   | Rat     | NOAEL 0.244 mg/l      | 14 weeks          |

**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.

#### EPCRA 311/312 Hazard Classifications:

##### Physical Hazards

Flammable (gases, aerosols, liquids, or solids)

##### Health Hazards

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

### 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:** 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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