



## Safety Data Sheet

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| <b>Issue Date:</b>     | 03/25/15  | <b>Supersedes Date:</b> | 07/02/14 |

### Product identifier

3M™ ESPE™ ADPER™ PROMPT™ SELF-ETCH ADHESIVE

### ID Number(s):

70-2009-3430-8, 70-2011-1297-9, 70-2011-1539-4, 70-2011-1541-0, 70-2011-1542-8, 70-2011-1543-6, 70-2011-1544-4, 70-2011-1757-2, 70-2011-1759-8, 70-2011-1762-2

### Recommended use

Dental Product, Dental adhesive system.

### 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:**

18-1063-9, 18-1072-0

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| <b>Issue Date:</b>     | 02/25/16  | <b>Supersedes Date:</b> | 10/09/14 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ ESPE™ Adper Prompt Part B

#### Product Identification Numbers

LE-FADP-PRBL-1, LE-FADP-PRBV-1

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

##### Recommended use

Dental Product, Part of a dental adhesive system.

##### 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

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.

#### 2.3. Hazards not otherwise classified

None.

### SECTION 3: Composition/information on ingredients

| Ingredient                                               | C.A.S. No. | % by Wt                |
|----------------------------------------------------------|------------|------------------------|
| WATER                                                    | 7732-18-5  | 70 - 80 Trade Secret * |
| 2-HYDROXYETHYL METHACRYLATE                              | 868-77-9   | 20 - 30 Trade Secret * |
| 2-PROPENOIC ACID, POLYMER WITH METHYLENEBUTANEDIOIC ACID | 25948-33-8 | < 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:**

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. 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**

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. 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.

## 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 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.

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

Store away from heat.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

**8.2. Exposure controls****8.2.1. Engineering controls**

Use in a well-ventilated area.

**8.2.2. Personal protective equipment (PPE)****Eye/face protection**

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

Safety Glasses with side shields

**Skin/hand protection**

See Section 7.1 for additional information on skin protection.

**Respiratory protection**

None required.

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

|                                                |                                  |
|------------------------------------------------|----------------------------------|
| <b>General Physical Form:</b>                  | Liquid                           |
| <b>Specific Physical Form:</b>                 | Liquid                           |
| <b>Odor, Color, Grade:</b>                     | Colorless, acrylic odor.         |
| <b>Odor threshold</b>                          | <i>No Data Available</i>         |
| <b>pH</b>                                      | 4.1                              |
| <b>Melting point</b>                           | <i>No Data Available</i>         |
| <b>Boiling Point</b>                           | <i>No Data Available</i>         |
| <b>Flash Point</b>                             | 101 °C [Test Method: Closed Cup] |
| <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>                          | <i>No Data Available</i>         |
| <b>Vapor Density</b>                           | <i>No Data Available</i>         |
| <b>Density</b>                                 | 1.03 g/ml                        |
| <b>Specific Gravity</b>                        | 1.0 [Ref Std: WATER=1]           |
| <b>Solubility In Water</b>                     | <i>No Data Available</i>         |
| <b>Solubility- non-water</b>                   | <i>No Data Available</i>         |
| <b>Partition coefficient: n-octanol/ water</b> | <i>No Data Available</i>         |
| <b>Autoignition temperature</b>                | <i>No Data Available</i>         |

|                           |                   |
|---------------------------|-------------------|
| Decomposition temperature | No Data Available |
| Viscosity                 | No Data Available |
| 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

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known.      |                  |

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

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

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.

#### Skin Contact:

Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### Eye Contact:

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.

#### 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 |
| 2-HYDROXYETHYL METHACRYLATE                              | Dermal    | Rabbit                | LD50 > 5,000 mg/kg                              |
| 2-HYDROXYETHYL METHACRYLATE                              | Ingestion | Rat                   | LD50 5,564 mg/kg                                |
| 2-PROPENOIC ACID, POLYMER WITH METHYLENEBUTANEDIOIC ACID | Dermal    | Professional judgment | LD50 estimated to be > 5,000 mg/kg              |
| 2-PROPENOIC ACID, POLYMER WITH METHYLENEBUTANEDIOIC ACID | Ingestion | Rat                   | LD50 > 5,000 mg/kg                              |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                        | Species | Value              |
|-----------------------------|---------|--------------------|
| 2-HYDROXYETHYL METHACRYLATE | Rabbit  | Minimal irritation |

#### Serious Eye Damage/Irritation

| Name                        | Species | Value             |
|-----------------------------|---------|-------------------|
| 2-HYDROXYETHYL METHACRYLATE | Rabbit  | Moderate irritant |

#### Skin Sensitization

| Name                        | Species          | Value       |
|-----------------------------|------------------|-------------|
| 2-HYDROXYETHYL METHACRYLATE | Human and animal | 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                                                                        |
|-----------------------------|----------|------------------------------------------------------------------------------|
| 2-HYDROXYETHYL METHACRYLATE | In vivo  | Not mutagenic                                                                |
| 2-HYDROXYETHYL METHACRYLATE | In Vitro | Some positive data exist, but 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

| Name | Route | Value | Species | Test Result | Exposure |
|------|-------|-------|---------|-------------|----------|
|------|-------|-------|---------|-------------|----------|



|                             |           |                                  |     |                       | Duration                     |
|-----------------------------|-----------|----------------------------------|-----|-----------------------|------------------------------|
| 2-HYDROXYETHYL METHACRYLATE | Ingestion | Not toxic to female reproduction | Rat | NOAEL 1,000 mg/kg/day | premating & during gestation |
| 2-HYDROXYETHYL METHACRYLATE | Ingestion | Not toxic to male reproduction   | Rat | NOAEL 1,000 mg/kg/day | 49 days                      |
| 2-HYDROXYETHYL METHACRYLATE | Ingestion | Not toxic to development         | Rat | NOAEL 1,000 mg/kg/day | premating & during gestation |

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

| Name                                                      | Route     | Target Organ(s) | Value                                                                        | Species | Test Result       | Exposure Duration |
|-----------------------------------------------------------|-----------|-----------------|------------------------------------------------------------------------------|---------|-------------------|-------------------|
| 2-PROPENOIC ACID, POLYMER WITH METHYLENEBUTANED IOIC ACID | Ingestion | nervous system  | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 5,000 mg/kg |                   |

**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):** 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

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

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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**Document Group:** 18-1063-9  
**Issue Date:** 02/25/16

**Version Number:** 6.00  
**Supersedes Date:** 03/26/15

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ ESPE™ Adper™ Prompt™ Part A

#### Product Identification Numbers

LE-FADP-PRAL-1, LE-FADP-PRAV-1

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

##### Recommended use

Dental Product, Part of a dental adhesive system.

##### 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 1.

Skin Corrosion/Irritation: Category 1.

Skin Sensitizer: Category 1A.

#### 2.2. Label elements

##### Signal word

Danger

**Symbols**

Corrosion | Exclamation mark |

**Pictograms****Hazard Statements**

Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.

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

Do not breathe dust/fume/gas/mist/vapors/spray.  
Wear protective gloves, protective clothing, and eye/face protection.  
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.  
Immediately call a POISON CENTER or doctor/physician.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**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>         |
|---------------------------------------------------------------------------------------------------|-------------------|------------------------|
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide (P2O5) | 1187441-10-6      | 70 - 90 Trade Secret * |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA)                                              | 1565-94-2         | 1 - 15 Trade Secret *  |
| DL-CAMPHORQUINONE                                                                                 | 10373-78-1        | < 2 Trade Secret *     |
| ETHYL 4-DIMETHYL AMINO BENZOATE                                                                   | 10287-53-3        | < 2 Trade Secret *     |
| 4-METHOXYPHENOL                                                                                   | 150-76-5          | < 0.2 Trade Secret *   |
| Phosphine oxide, (butylphenyl)bis(2,6-dichlorobenzoyl)-                                           | 117310-64-2       | < 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 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

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. 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. Cover, but do not seal for 48 hours. 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. 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) 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

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  | Additional Comments |
|-----------------|------------|--------|-------------|---------------------|
| 4-METHOXYPHENOL | 150-76-5   | ACGIH  | TWA:5 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:

Liquid

Specific Physical Form:

Viscous

|                                                |                                  |
|------------------------------------------------|----------------------------------|
| <b>Odor, Color, Grade:</b>                     | Yellow color, acrylic odor.      |
| <b>Odor threshold</b>                          | <i>No Data Available</i>         |
| <b>pH</b>                                      | 0.9 - 1                          |
| <b>Melting point</b>                           | <i>No Data Available</i>         |
| <b>Boiling Point</b>                           | <i>No Data Available</i>         |
| <b>Flash Point</b>                             | 152 °C [Test Method: Closed Cup] |
| <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>                          | <i>No Data Available</i>         |
| <b>Vapor Density</b>                           | <i>No Data Available</i>         |
| <b>Density</b>                                 | 1.2 g/ml                         |
| <b>Specific Gravity</b>                        | 1.2 [Ref Std: WATER=1]           |
| <b>Solubility In Water</b>                     | <i>No Data Available</i>         |
| <b>Solubility- non-water</b>                   | <i>No Data Available</i>         |
| <b>Partition coefficient: n-octanol/ water</b> | <i>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>                               | <i>No Data Available</i>         |
| <b>Molecular weight</b>                        | <i>No Data Available</i>         |
| <b>Percent volatile</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

Heat

### 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. 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.

##### Skin Contact:

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

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

##### Eye Contact:

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

##### Ingestion:

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

#### Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### Acute Toxicity

| Name                                                                                              | Route     | Species                | Value                                           |
|---------------------------------------------------------------------------------------------------|-----------|------------------------|-------------------------------------------------|
| Overall product                                                                                   | Dermal    |                        | No data available; calculated ATE > 5,000 mg/kg |
| Overall product                                                                                   | Ingestion |                        | No data available; calculated ATE > 5,000 mg/kg |
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide (P2O5) | Dermal    | Professional judgement | LD50 estimated to be > 5,000 mg/kg              |
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide (P2O5) | Ingestion | Rat                    | LD50 > 5,000 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        |
| DL-CAMPHORQUINONE                                                                                 | Dermal    | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg        |
| DL-CAMPHORQUINONE                                                                                 | Ingestion | Rat                    | LD50 > 2,000 mg/kg                              |
| ETHYL 4-DIMETHYL AMINO BENZOATE                                                                   | Dermal    | Rat                    | LD50 > 2,000 mg/kg                              |



|                                                         |           |     |                    |
|---------------------------------------------------------|-----------|-----|--------------------|
| ETHYL 4-DIMETHYL AMINO BENZOATE                         | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Phosphine oxide, (butylphenyl)bis(2,6-dichlorobenzoyl)- | Ingestion | Rat | LD50 > 2,000 mg/kg |
| 4-METHOXYPHENOL                                         | Dermal    | Rat | LD50 > 2,000 mg/kg |
| 4-METHOXYPHENOL                                         | Ingestion | Rat | LD50 1,600 mg/kg   |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                                                    | Species       | Value                     |
|---------------------------------------------------------|---------------|---------------------------|
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA)    | Not available | Minimal irritation        |
| ETHYL 4-DIMETHYL AMINO BENZOATE                         | Rabbit        | No significant irritation |
| Phosphine oxide, (butylphenyl)bis(2,6-dichlorobenzoyl)- | Rabbit        | No significant irritation |
| 4-METHOXYPHENOL                                         | Rabbit        | Mild irritant             |

#### Serious Eye Damage/Irritation

| Name                                                    | Species       | Value                     |
|---------------------------------------------------------|---------------|---------------------------|
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA)    | Not available | Moderate irritant         |
| ETHYL 4-DIMETHYL AMINO BENZOATE                         | Rabbit        | Mild irritant             |
| Phosphine oxide, (butylphenyl)bis(2,6-dichlorobenzoyl)- | Rabbit        | No significant irritation |
| 4-METHOXYPHENOL                                         | Rabbit        | Severe irritant           |

#### Skin Sensitization

| Name                                                    | Species    | Value       |
|---------------------------------------------------------|------------|-------------|
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA)    | Guinea pig | Sensitizing |
| Phosphine oxide, (butylphenyl)bis(2,6-dichlorobenzoyl)- | Guinea pig | Sensitizing |
| 4-METHOXYPHENOL                                         | 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                                                                        |
|---------------------------------------------------------|----------|------------------------------------------------------------------------------|
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA)    | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Phosphine oxide, (butylphenyl)bis(2,6-dichlorobenzoyl)- | 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            |
|------------------------------------------------------|-----------|----------------------------------|---------|---------------------|------------------------------|
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Ingestion | Not toxic to female reproduction | Mouse   | NOAEL 0.8 mg/kg/day | premating & during gestation |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Ingestion | Not toxic to male reproduction   | Mouse   | NOAEL 0.8 mg/kg/day | premating & during gestation |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Ingestion | Not toxic to development         | Mouse   | NOAEL 0.8 mg/kg/day | premating & during gestation |

**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**

| Name                                                          | Route     | Target Organ(s)                                                            | Value                 | Species | Test Result            | Exposure Duration                    |
|---------------------------------------------------------------|-----------|----------------------------------------------------------------------------|-----------------------|---------|------------------------|--------------------------------------|
| BISPHENOL A<br>DIGLYCIDYL ETHER<br>DIMETHACRYLATE<br>(BISGMA) | Ingestion | endocrine system  <br>liver   nervous<br>system   kidney<br>and/or bladder | All data are negative | Mouse   | NOAEL 0.8<br>mg/kg/day | prematuring &<br>during<br>gestation |

**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.

**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

**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:** 3 **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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