



Safety Data Sheet

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| | | | |
|------------------------|-----------|-------------------------|----------|
| Document Group: | 21-6076-0 | Version Number: | 3.01 |
| Issue Date: | 02/05/18 | Supersedes Date: | 04/08/15 |

Product identifier

12626TP CLINPRO SEALANT & ADPER PROMPT L-POP TRIAL KIT

ID Number(s):

70-2010-5195-3, 70-2014-1245-2

Recommended use

Dental material

Restrictions on use

For use only by dental professionals.

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) |

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:

18-1072-0, 18-1063-9, 16-0386-9

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Safety Data Sheet

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| | | | |
|------------------------|-----------|-------------------------|----------|
| Document Group: | 18-1072-0 | Version Number: | 5.01 |
| Issue Date: | 01/22/18 | Supersedes Date: | 02/25/16 |

SECTION 1: Identification

1.1. Product identifier

3M™ ESPE™ Adper Prompt Part B

Product Identification Numbers

| ID Number | UPC | ID Number | UPC |
|----------------|-----|----------------|-----|
| 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

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

1.4. Emergency telephone number

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

SECTION 2: Hazard identification

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

2.1. Hazard classification

Serious Eye Damage/Irritation: Category 2B.

Skin Sensitizer: Category 1.

2.2. Label elements

Signal word

Warning

Symbols

Exclamation mark |

Pictograms**Hazard Statements**

Causes eye irritation.
May cause an allergic skin reaction.

Precautionary Statements**Prevention:**

Avoid breathing dust/fume/gas/mist/vapors/spray.
Wear protective gloves.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.

Disposal:

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

SECTION 3: Composition/information on ingredients

| 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 in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. Acrylates may penetrate commonly-used gloves. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not 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. Avoid release to the environment. 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**

| | |
|--|--|
| General Physical Form: | Liquid |
| Specific Physical Form: | Liquid |
| Odor, Color, Grade: | Colorless, acrylic odor. |
| Odor threshold | <i>No Data Available</i> |
| pH | 4.1 |
| Melting point | <i>No Data Available</i> |
| Boiling Point | <i>No Data Available</i> |
| Flash Point | 101 °C [<i>Test Method</i> :Closed Cup] |
| Evaporation rate | <i>No Data Available</i> |
| Flammability (solid, gas) | Not Applicable |
| Flammable Limits(LEL) | <i>No Data Available</i> |
| Flammable Limits(UEL) | <i>No Data Available</i> |
| Vapor Pressure | <i>No Data Available</i> |
| Vapor Density | <i>No Data Available</i> |
| Density | 1.03 g/ml |
| Specific Gravity | 1.0 [<i>Ref Std</i> :WATER=1] |
| Solubility In Water | <i>No Data Available</i> |
| Solubility- non-water | <i>No Data Available</i> |
| Partition coefficient: n-octanol/ water | <i>No Data Available</i> |
| Autoignition temperature | <i>No Data Available</i> |

| | |
|---------------------------|--------------------------|
| Decomposition temperature | <i>No Data Available</i> |
| Viscosity | <i>No Data Available</i> |
| Molecular weight | <i>No Data Available</i> |
| Percent volatile | <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

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 | Ingestion | Rat | LD50 > 5,000 mg/kg |
| 2-PROPENOIC ACID, POLYMER WITH METHYLENEBUTANEDIOIC ACID | Dermal | similar health hazards | LD50 estimated to be > 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 classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| 2-HYDROXYETHYL METHACRYLATE | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 49 days |
| 2-HYDROXYETHYL METHACRYLATE | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | prematuring & during gestation |

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 | Not classified | Rat | NOAEL 5,000 mg/kg | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|-----------|--|----------------|---------|-----------------------|-------------------|
| 2-PROPENOIC ACID, POLYMER WITH METHYLENEBUTANED IOIC ACID | Ingestion | endocrine system hematopoietic system liver | Not classified | Rat | NOAEL 200 mg/kg/day | 28 days |
| 2-PROPENOIC ACID, POLYMER WITH METHYLENEBUTANED IOIC ACID | Ingestion | heart bone, teeth, nails, and/or hair immune system muscles nervous system eyes kidney and/or bladder respiratory system vascular system | Not classified | Rat | NOAEL 2,000 mg/kg/day | 28 days |

Aspiration Hazard

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

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

SECTION 12: Ecological information

Ecotoxicological information

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

Chemical fate information

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

SECTION 13: Disposal considerations

13.1. Disposal methods

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

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

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

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

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:

Physical Hazards

Not applicable

Health Hazards

Serious eye damage or eye irritation

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

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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| Issue Date: | 01/22/18 | Supersedes Date: | 02/25/16 |

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which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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|------------------------|-----------|-------------------------|----------|
| Document Group: | 16-0386-9 | Version Number: | 16.03 |
| Issue Date: | 03/06/23 | Supersedes Date: | 02/05/18 |

SECTION 1: Identification

1.1. Product identifier

3M™ Clinpro™ Sealant (12622, 12627, 12632, 12637, 12642, 12647)

Product Identification Numbers

70-2010-3009-8, 70-2010-3152-6, 70-2010-3154-2, 70-2014-1240-3, 70-2014-1241-1, 70-2014-1242-9, 70-2014-1660-2, 70-2014-1662-8

7100111779, 7000054256, 7000054257, 7100156257, 7100156290, 7100156319, 7100239111, 7100239213

1.2. Recommended use and restrictions on use

Recommended use

Dental Product, Dental sealant

Restrictions on use

For use only by dental professionals

1.3. Supplier's details

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

1.4. Emergency telephone number

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

SECTION 2: Hazard identification

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

2.1. Hazard classification

Serious Eye Damage/Irritation: Category 2B.

Skin Sensitizer: Category 1.

Reproductive Toxicity: Category 1B.

2.2. Label elements

Signal word

Danger

Symbols

Exclamation mark | Health Hazard |

Pictograms



Hazard Statements

Causes eye irritation.
May cause an allergic skin reaction.
May damage fertility or the unborn child.

Precautionary Statements

Prevention:

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing vapors.
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.
IF exposed or concerned: Get medical advice/attention.

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 |
|--|------------|------------------------|
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | 1565-94-2 | 40 - 50 Trade Secret * |
| Triethylene Glycol Dimethacrylate (TEGDMA) | 109-16-0 | 40 - 50 Trade Secret * |
| Silane Treated Silica | 68611-44-9 | 5 - 10 Trade Secret * |
| Tetrabutylammonium Tetrafluoroborate | 429-42-5 | < 5 Trade Secret * |
| Diphenyliodonium Hexafluorophosphate | 58109-40-3 | < 1 Trade Secret * |
| Titanium Oxide | 13463-67-7 | < 0.5 Trade Secret * |
| Triphenylantimony | 603-36-1 | < 0.5 Trade Secret * |
| Ethyl 4-Dimethyl Aminobenzoate (EDMAB) | 10287-53-3 | < 0.3 Trade Secret * |
| Hydroquinone | 123-31-9 | < 0.05 Trade Secret * |

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

secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

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

Skin Contact:

No need for first aid is anticipated.

Eye Contact:

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

If Swallowed:

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

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

Allergic skin reaction (redness, swelling, blistering, and itching).

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide

Carbon dioxide

Condition

During Combustion

During Combustion

5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. 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. Clean up residue with an appropriate solvent selected by a qualified and authorized person.

Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. Acrylates may penetrate commonly-used gloves. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Do not 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. Avoid release to the environment. Wash contaminated clothing before reuse. Do not get in eyes. Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

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

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|--------------------|------------|--------|--|---|
| Hydroquinone | 123-31-9 | ACGIH | TWA:1 mg/m ³ | A3: Confirmed animal carcin., Dermal Sensitizer |
| Hydroquinone | 123-31-9 | OSHA | TWA:2 mg/m ³ | |
| Titanium Oxide | 13463-67-7 | ACGIH | TWA(Respirable nanoscale particles):0.2 mg/m ³ ;TWA(Respirable finescale particles):2.5 mg/m ³ | A3: Confirmed animal carcin. |
| Titanium Oxide | 13463-67-7 | OSHA | TWA(as total dust):15 mg/m ³ | |
| ANTIMONY COMPOUNDS | 603-36-1 | ACGIH | TWA(as Sb):0.5 mg/m ³ | |
| ANTIMONY COMPOUNDS | 603-36-1 | OSHA | TWA(as Sb):0.5 mg/m ³ | |
| SILICA, AMORPHOUS | 68611-44-9 | OSHA | TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m ³ | |

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

Transparent Yellow

Specific Physical Form:

Liquid

Odor

Characteristic Odor

Odor threshold

No Data Available

pH

No Data Available

Melting point

Not Applicable

Boiling Point

No Data Available

Flash Point

Flash point > 93 °C (200 °F)

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 [@ 131.0 °F]

Vapor Density

No Data Available

Density

1.2 g/ml

Specific Gravity

1.2 [Ref Std: WATER=1]

Solubility In Water

No Data Available

Solubility- non-water

No Data Available

Partition coefficient: n-octanol/ water

Not Applicable

Autoignition temperature

No Data Available

Decomposition temperature

No Data Available

Viscosity

Approximately 1,000 centistoke

Molecular weight

No Data Available

Volatile Organic Compounds

No Data Available

Percent volatile

No Data Available

VOC Less H2O & Exempt Solvents

No Data Available

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****Condition**

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

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

11.1. Information on Toxicological effects**Signs and Symptoms of Exposure**

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

Inhalation:

This product may have a characteristic odor; however, no adverse health effects are anticipated.

Skin Contact:

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

Eye Contact:

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

Ingestion:

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

May cause additional health effects (see below).

Additional Health Effects:**Reproductive/Developmental Toxicity:**

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Carcinogenicity:

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

Contains a chemical or chemicals which can cause cancer.

| Ingredient | CAS No. | Class Description | Regulation |
|-------------------|----------------|-------------------------------|---|
| Titanium dioxide | 13463-67-7 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

Toxicological Data

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

Acute Toxicity

| Name | Route | Species | Value |
|--|--------------------------------|------------------------|------------------------------------|
| Overall product | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Overall product | Dermal | similar health hazards | LD50 Not available |
| Triethylene Glycol Dimethacrylate (TEGDMA) | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| Triethylene Glycol Dimethacrylate (TEGDMA) | Ingestion | Rat | LD50 10,837 mg/kg |
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | Ingestion | Rat | LD50 > 11,700 mg/kg |
| Silane Treated Silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Silane Treated Silica | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Silane Treated Silica | Ingestion | Rat | LD50 > 5,110 mg/kg |
| Diphenyliodonium Hexafluorophosphate | Ingestion | Rat | LD50 32 mg/kg |
| Triphenylantimony | Inhalation-Dust/Mist | | LC50 estimated to be 1 - 5 mg/l |
| Triphenylantimony | Dermal | Rat | LD50 > 2,000 mg/kg |
| Triphenylantimony | Ingestion | Rat | LD50 82.5 mg/kg |
| Ethyl 4-Dimethyl Aminobenzoate (EDMAB) | Dermal | Rat | LD50 > 2,000 mg/kg |
| Ethyl 4-Dimethyl Aminobenzoate (EDMAB) | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Titanium Oxide | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| Titanium Oxide | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 6.82 mg/l |
| Titanium Oxide | Ingestion | Rat | LD50 > 10,000 mg/kg |
| Hydroquinone | Dermal | Rat | LD50 > 4,800 mg/kg |
| Hydroquinone | Ingestion | Rat | LD50 302 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--|------------------|---------------------------|
| Triethylene Glycol Dimethacrylate (TEGDMA) | Guinea pig | Mild irritant |
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | Rabbit | No significant irritation |
| Silane Treated Silica | Rabbit | No significant irritation |
| Diphenyliodonium Hexafluorophosphate | Rabbit | No significant irritation |
| Triphenylantimony | Rabbit | Minimal irritation |
| Ethyl 4-Dimethyl Aminobenzoate (EDMAB) | Rabbit | No significant irritation |
| Titanium Oxide | Rabbit | No significant irritation |
| Hydroquinone | Human and animal | Minimal irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|------------------------|-------------------|
| Triethylene Glycol Dimethacrylate (TEGDMA) | Professional judgement | Moderate irritant |

| | nt | |
|--|---------------|---------------------------|
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | In vitro data | No significant irritation |
| Silane Treated Silica | Rabbit | No significant irritation |
| Diphenyliodonium Hexafluorophosphate | Rabbit | Mild irritant |
| Triphenylantimony | Rabbit | Mild irritant |
| Ethyl 4-Dimethyl Aminobenzoate (EDMAB) | Rabbit | No significant irritation |
| Titanium Oxide | Rabbit | No significant irritation |
| Hydroquinone | Human | Corrosive |

Skin Sensitization

| Name | Species | Value |
|--|------------------|----------------|
| Triethylene Glycol Dimethacrylate (TEGDMA) | Human and animal | Sensitizing |
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | Mouse | Not classified |
| Silane Treated Silica | Human and animal | Not classified |
| Ethyl 4-Dimethyl Aminobenzoate (EDMAB) | | Not classified |
| Titanium Oxide | Human and animal | Not classified |
| Hydroquinone | Guinea pig | Sensitizing |

Respiratory Sensitization

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

Germ Cell Mutagenicity

| Name | Route | Value |
|--|----------|--|
| Triethylene Glycol Dimethacrylate (TEGDMA) | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | In Vitro | Not mutagenic |
| Silane Treated Silica | In Vitro | Not mutagenic |
| Diphenyliodonium Hexafluorophosphate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Ethyl 4-Dimethyl Aminobenzoate (EDMAB) | In vivo | Not mutagenic |
| Ethyl 4-Dimethyl Aminobenzoate (EDMAB) | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Titanium Oxide | In Vitro | Not mutagenic |
| Titanium Oxide | In vivo | Not mutagenic |
| Hydroquinone | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Hydroquinone | In vivo | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|--|---------------|-------------------------|--|
| Triethylene Glycol Dimethacrylate (TEGDMA) | Dermal | Mouse | Not carcinogenic |
| Silane Treated Silica | Not Specified | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Titanium Oxide | Ingestion | Multiple animal species | Not carcinogenic |
| Titanium Oxide | Inhalation | Rat | Carcinogenic |
| Hydroquinone | Dermal | Mouse | Not carcinogenic |
| Hydroquinone | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|--|-----------|--|---------|-----------------------|----------------------------|
| Triethylene Glycol Dimethacrylate (TEGDMA) | Ingestion | Not classified for female reproduction | Mouse | NOAEL 1 mg/kg/day | 1 generation |
| Triethylene Glycol Dimethacrylate (TEGDMA) | Ingestion | Not classified for male reproduction | Mouse | NOAEL 1 mg/kg/day | 1 generation |
| Triethylene Glycol Dimethacrylate (TEGDMA) | Ingestion | Not classified for development | Mouse | NOAEL 1 mg/kg/day | 1 generation |
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during gestation |
| Silane Treated Silica | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Silane Treated Silica | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Silane Treated Silica | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |
| Ethyl 4-Dimethyl Aminobenzoate (EDMAB) | Ingestion | Not classified for female reproduction | Rat | NOAEL 600 mg/kg/day | prematuring into lactation |
| Ethyl 4-Dimethyl Aminobenzoate (EDMAB) | Ingestion | Not classified for development | Rat | NOAEL 50 mg/kg/day | prematuring into lactation |
| Ethyl 4-Dimethyl Aminobenzoate (EDMAB) | Ingestion | Toxic to male reproduction | Rat | NOAEL 50 mg/kg/day | 53 days |
| Hydroquinone | Ingestion | Not classified for female reproduction | Rat | NOAEL 150 mg/kg/day | 2 generation |
| Hydroquinone | Ingestion | Not classified for male reproduction | Rat | NOAEL 150 mg/kg/day | 2 generation |
| Hydroquinone | Ingestion | Not classified for development | Rat | NOAEL 100 mg/kg/day | during organogenesis |

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

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|--------------------------------------|------------|------------------------|----------------------------|---------------|----------------------|-------------------|
| Diphenyliodonium Hexafluorophosphate | Inhalation | respiratory irritation | Not classified | Not available | Irritation Equivocal | |
| Hydroquinone | Ingestion | nervous system | May cause damage to organs | Rat | NOAEL Not available | not applicable |
| Hydroquinone | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 400 mg/kg | not applicable |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|--|-----------|--|----------------|---------|-----------------------|-------------------|
| Triethylene Glycol Dimethacrylate (TEGDMA) | Dermal | kidney and/or bladder blood | Not classified | Mouse | NOAEL 833 mg/kg/day | 78 weeks |
| Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA) | Ingestion | endocrine system hematopoietic system liver heart skin gastrointestinal tract bone, teeth, nails, and/or hair immune system muscles nervous system eyes kidney and/or bladder respiratory system vascular system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |

| | | | | | | |
|--|------------|--|--|-------|---------------------|-----------------------|
| Silane Treated Silica | Inhalation | respiratory system silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| Ethyl 4-Dimethyl Aminobenzoate (EDMAB) | Ingestion | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 74 mg/kg/day | 28 days |
| Ethyl 4-Dimethyl Aminobenzoate (EDMAB) | Ingestion | liver heart endocrine system gastrointestinal tract bone, teeth, nails, and/or hair immune system muscles nervous system eyes kidney and/or bladder respiratory system vascular system | Not classified | Rat | NOAEL 900 mg/kg/day | 28 days |
| Titanium Oxide | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 0.01 mg/l | 2 years |
| Titanium Oxide | Inhalation | pulmonary fibrosis | Not classified | Human | NOAEL Not available | occupational exposure |
| Hydroquinone | Ingestion | blood | Not classified | Rat | NOAEL Not available | 40 days |
| Hydroquinone | Ingestion | bone marrow liver | Not classified | Rat | NOAEL Not available | 9 weeks |
| Hydroquinone | Ingestion | kidney and/or bladder | Not classified | Rat | LOAEL 50 mg/kg/day | 15 months |
| Hydroquinone | Ocular | eyes | Not classified | Human | NOAEL Not available | occupational exposure |

Aspiration Hazard

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

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

SECTION 12: Ecological information**Ecotoxicological information**

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

Chemical fate information

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

SECTION 13: Disposal considerations**13.1. Disposal methods**

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

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

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

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

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:

Physical Hazards

Not applicable

Health Hazards

Reproductive toxicity

Respiratory or Skin Sensitization

Serious eye damage or eye irritation

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

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

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

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

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

SECTION 16: Other information

NFPA Hazard Classification

Health: 2 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

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

| | | | |
|------------------------|-----------|-------------------------|----------|
| Document Group: | 16-0386-9 | Version Number: | 16.03 |
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Safety Data Sheet

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|------------------------|-----------|-------------------------|----------|
| Document Group: | 18-1063-9 | Version Number: | 7.00 |
| Issue Date: | 01/21/22 | Supersedes Date: | 04/23/20 |

SECTION 1: Identification

1.1. Product identifier

3M™ Adper™ Prompt™ Part A

Product Identification Numbers

| ID Number | UPC | ID Number | UPC |
|----------------|-----|----------------|-----|
| 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 1B.
 Skin Sensitizer: Category 1A.
 Reproductive Toxicity: Category 1B.

2.2. Label elements

Signal word

Danger

Symbols

Corrosion | Exclamation mark | Health Hazard |

Pictograms



Hazard Statements

Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
May damage fertility or the unborn child.

Precautionary Statements

Prevention:

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
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

| Ingredient | C.A.S. No. | % by Wt |
|---|--------------|------------------------|
| 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 * |
| Phosphine oxide, (butylphenyl)bis(2,6-dichlorobenzoyl)- | 117310-64-2 | < 0.5 Trade Secret * |
| 4-METHOXYPHENOL | 150-76-5 | < 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

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

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide
Carbon dioxide

Condition

During Combustion
During Combustion

5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Contain spill. Collect as much of the spilled material as possible. Place in a metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Cover, but do not seal for 48 hours. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. Acrylates may penetrate commonly-used gloves. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Do not get in eyes. Keep away from reactive metals (eg. Aluminum, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard. Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from 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****Appearance****Physical state**

Liquid

Color

Yellow

Specific Physical Form:

Viscous

Odor

Acrylic

Odor threshold*No Data Available***pH**

0.9 - 1

Melting point*No Data Available***Boiling Point***No Data Available***Flash Point**152 °C [*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***No Data Available***Vapor Density***No Data Available***Density**

1.2 g/ml

Specific Gravity1.2 [*Ref Std: WATER=1*]**Solubility In Water***No Data Available***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***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

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:

May be harmful in contact with skin.

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:

May be harmful if swallowed.

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

May cause additional health effects (see below).

Additional Health Effects:**Reproductive/Developmental Toxicity:**

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Toxicological Data

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

Acute Toxicity

| Name | Route | Species | Value |
|---|-----------|------------------------|---|
| Overall product | Dermal | | No data available; calculated ATE >2,000 - ≤5,000 mg/kg |
| Overall product | Ingestion | | No data available; calculated ATE >2,000 - ≤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 2,000 - 5,000 mg/kg |
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide (P2O5) | Ingestion | Rat | LD50 > 2,000 mg/kg |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Ingestion | Rat | LD50 > 11,700 mg/kg |
| 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)- | Dermal | | LD50 estimated to be > 5,000 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 1,630 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---|---------------|---------------------------|
| Overall product | In vitro data | Corrosive |
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide (P2O5) | Rabbit | Minimal irritation |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Rabbit | No significant 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 |
|---|---------------|---------------------------|
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide (P2O5) | Rabbit | Corrosive |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | In vitro data | No significant irritation |
| ETHYL 4-DIMETHYL AMINO BENZOATE | Rabbit | No significant irritation |
| Phosphine oxide, (butylphenyl)bis(2,6-dichlorobenzoyl)- | Rabbit | No significant irritation |
| 4-METHOXYPHENOL | Rabbit | Severe irritant |

Skin Sensitization

| Name | Species | Value |
|---|------------|----------------|
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide (P2O5) | Mouse | Sensitizing |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Mouse | Not classified |
| ETHYL 4-DIMETHYL AMINO BENZOATE | | Not classified |
| 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 |
|---|----------|--|
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide (P2O5) | In Vitro | Not mutagenic |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | In Vitro | Not mutagenic |
| ETHYL 4-DIMETHYL AMINOBENZOATE | In vivo | Not mutagenic |
| ETHYL 4-DIMETHYL AMINOBENZOATE | 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 |
| 4-METHOXYPHENOL | In vivo | Not mutagenic |
| 4-METHOXYPHENOL | In Vitro | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|-----------------|-----------|-------------------------|--|
| 4-METHOXYPHENOL | Dermal | Multiple animal species | Not carcinogenic |
| 4-METHOXYPHENOL | 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 |
|---|-----------|--|---------|-----------------------|----------------------------|
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide (P2O5) | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | prematuring into lactation |
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide (P2O5) | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide (P2O5) | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | prematuring into lactation |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during gestation |
| ETHYL 4-DIMETHYL AMINOBENZOATE | Ingestion | Not classified for female reproduction | Rat | NOAEL 600 mg/kg/day | prematuring into lactation |
| ETHYL 4-DIMETHYL AMINOBENZOATE | Ingestion | Not classified for development | Rat | NOAEL 50 mg/kg/day | prematuring into lactation |
| ETHYL 4-DIMETHYL AMINOBENZOATE | Ingestion | Toxic to male reproduction | Rat | NOAEL 50 mg/kg/day | 53 days |
| 4-METHOXYPHENOL | Ingestion | Not classified for female reproduction | Rat | NOAEL 300 mg/kg/day | prematuring into lactation |
| 4-METHOXYPHENOL | Ingestion | Not classified for male reproduction | Rat | NOAEL 300 mg/kg/day | 28 days |
| 4-METHOXYPHENOL | Ingestion | Not classified for development | Rat | NOAEL 200 mg/kg/day | during gestation |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|------|-------|-----------------|-------|---------|-------------|-------------------|
|------|-------|-----------------|-------|---------|-------------|-------------------|

| | | | | | | |
|---|------------|------------------------|--|------------------------|---------------------|--|
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide (P2O5) | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| 4-METHOXYPHENOL | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|-----------|--|--|---------|-----------------------|-------------------|
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide (P2O5) | Ingestion | liver kidney and/or bladder respiratory system hematopoietic system nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Ingestion | endocrine system hematopoietic system liver heart skin gastrointestinal tract bone, teeth, nails, and/or hair immune system muscles nervous system eyes kidney and/or bladder respiratory system vascular system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| ETHYL 4-DIMETHYL AMINO BENZOATE | Ingestion | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 74 mg/kg/day | 28 days |
| ETHYL 4-DIMETHYL AMINO BENZOATE | Ingestion | liver heart endocrine system gastrointestinal tract bone, teeth, nails, and/or hair immune system muscles nervous system eyes kidney and/or bladder respiratory system vascular system | Not classified | Rat | NOAEL 900 mg/kg/day | 28 days |
| 4-METHOXYPHENOL | Ingestion | gastrointestinal tract | Not classified | Rat | LOAEL 300 mg/kg/day | 28 days |
| 4-METHOXYPHENOL | Ingestion | liver immune system | Not classified | Rat | NOAEL 300 mg/kg/day | 28 days |
| 4-METHOXYPHENOL | Ingestion | kidney and/or bladder | Not classified | Rat | LOAEL 300 mg/kg/day | 28 days |
| 4-METHOXYPHENOL | Ingestion | heart endocrine system hematopoietic system nervous system respiratory system | Not classified | Rat | NOAEL 300 mg/kg/day | 28 days |

Aspiration Hazard

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

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

SECTION 12: Ecological information**Ecotoxicological information**

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

Chemical fate information

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

SECTION 13: Disposal considerations**13.1. Disposal methods**

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

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

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

SECTION 14: Transport Information

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

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

Contact 3M for more information.

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

Not applicable

Health Hazards

Hazard Not Otherwise Classified (HNOC)

Reproductive toxicity

Respiratory or Skin Sensitization

Serious eye damage or eye irritation

Skin Corrosion or Irritation

15.2. State Regulations

Contact 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.

| | | | |
|------------------------|-----------|-------------------------|----------|
| Document Group: | 18-1063-9 | Version Number: | 7.00 |
| Issue Date: | 01/21/22 | Supersedes Date: | 04/23/20 |

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