



## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ ESPET™ ADPER™ SINGLE BOND PLUS

#### Product Identification Numbers

LE-F100-0114-1, 70-2010-3673-1

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

##### Recommended use

Dental Product, Adhesive

##### 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

Flammable Liquid: Category 2.

Serious Eye Damage/Irritation: Category 2B.

Skin Sensitizer: Category 1B.

Specific Target Organ Toxicity (central nervous system): Category 3.

#### 2.2. Label elements

##### Signal word

Danger

**Symbols**

Flame | Exclamation mark |

**Pictograms**



**Hazard Statements**

Highly flammable liquid and vapor.

Causes eye irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

**Precautionary Statements**

**Prevention:**

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

Keep container tightly closed.

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

Use only in a well-ventilated area.

Wear protective gloves 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.

If eye irritation persists: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Call a POISON CENTER or doctor/physician if you feel unwell.

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

**Storage:**

Store in a well-ventilated place. Keep cool.

Keep container tightly closed.

**Disposal:**

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

**2.3. Hazards not otherwise classified**

Although ethyl alcohol is classified as a central nervous system depressant, exposures associated with this health effect are not expected during normal, intended use of this product.

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

| Ingredient | C.A.S. No. | % by Wt |
|------------|------------|---------|
|------------|------------|---------|

|   |            |                        |
|---|------------|------------------------|
| ETHYL ALCOHOL   | 64-17-5    | 25 - 35 Trade Secret * |
| BISPHENOL A DIGLYCIDYL ETHER<br>DIMETHACRYLATE (BISGMA) | 1565-94-2  | 10 - 20 Trade Secret * |
| SILANE TREATED SILICA                                   | None       | 10 - 20 Trade Secret * |
| 2-HYDROXYETHYL METHACRYLATE (HEMA)                      | 868-77-9   | 5 - 15 Trade Secret *  |
| GLYCEROL 1,3-DIMETHACRYLATE                             | 1830-78-0  | 5 - 10 Trade Secret *  |
| COPOLYMER OF ACRYLIC AND ITACONIC ACIDS                 | 25948-33-8 | 5 - 10 Trade Secret *  |
| WATER   | 7732-18-5  | < 5 Trade Secret *     |
| DIURETHANE DIMETHACRYLATE (UDMA)                        | 72869-86-4 | < 5 Trade Secret *     |
| DIPHENYLIODONIUM HEXAFLUOROPHOSPHATE                    | 58109-40-3 | < 1 Trade Secret *     |
| ETHYL 4-DIMETHYL AMINOBENZOATE (EDMAB)                  | 10287-53-3 | < 1 Trade Secret *     |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation:**

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

**Skin Contact:**

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

**Eye Contact:**

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

**If Swallowed:**

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

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

See Section 11.1. Information on toxicological effects.

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

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

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

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

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

### Hazardous Decomposition or By-Products

Substance

Carbon monoxide  
Carbon dioxide

Condition

During Combustion  
During Combustion

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

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

## SECTION 6: Accidental release measures

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

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

Avoid release to the environment.

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

Contain spill. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with 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.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. Acrylates may penetrate commonly-used gloves. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

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

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from oxidizing agents.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

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

| Ingredient    | C.A.S. No. | Agency | Limit type                            | Additional Comments          |
|---------------|------------|--------|---------------------------------------|------------------------------|
| ETHYL ALCOHOL | 64-17-5    | ACGIH  | STEL:1000 ppm                         | A3: Confirmed animal carcin. |
| ETHYL ALCOHOL | 64-17-5    | OSHA   | TWA:1900 mg/m <sup>3</sup> (1000 ppm) |                              |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

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

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

**8.2.1. Engineering controls**

Use in a well-ventilated area.

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

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

Safety Glasses with side shields

**Skin/hand protection**

See Section 7.1 for additional information on skin protection.

**Respiratory protection**

None required.

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

|  |  |
|--|--|
| <b>General Physical Form:</b>                  | Liquid                                     |
| <b>Specific Physical Form:</b>                 | Liquid                                     |
| <b>Odor, Color, Grade:</b>                     | Slight acrylate odor, white to clear       |
| <b>Odor threshold</b>                          | <i>No Data Available</i>                   |
| <b>pH</b>                                      | <i>No Data Available</i>                   |
| <b>Melting point</b>                           | <i>Not Applicable</i>                      |
| <b>Boiling Point</b>                           | 78 °C                                      |
| <b>Flash Point</b>                             | 18.5 °C [ <i>Test Method: Closed Cup</i> ] |
| <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>                                 | 1.075 g/ml                                 |
| <b>Specific Gravity</b>                        | 1.075 [ <i>Ref Std: WATER=1</i> ]          |
| <b>Solubility in Water</b>                     | Negligible                                 |
| <b>Solubility- non-water</b>                   | <i>No Data Available</i>                   |
| <b>Partition coefficient: n-octanol/ water</b> | <i>Not Applicable</i>                      |
| <b>Autoignition temperature</b>                | 410 °C                                     |
| <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 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**

Heat  
Sparks and/or flames

**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.

**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:**

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

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

May cause additional health effects (see below).

**Skin Contact:**

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:**

May be harmful if swallowed.

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

May cause additional health effects (see below).

**Additional Health Effects:****Single exposure may cause target organ effects:**

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

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

**Additional Information:**

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

**Toxicological Data**

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

**Acute Toxicity**

| Name   | Route                          | Species                | Value   |
|--|--------------------------------|------------------------|---|
| Overall product                                      | Ingestion                      |                        | No data available; calculated ATE 2,000 - 5,000 mg/kg |
| Overall product                                      | Dermal                         | Rabbit                 | LD50 > 2,000 mg/kg                                    |
| ETHYL ALCOHOL  | Dermal                         | Rabbit                 | LD50 > 15,800 mg/kg                                   |
| ETHYL ALCOHOL  | Inhalation-Vapor (4 hours)     | Rat                    | LC50 124.7 mg/l                                       |
| ETHYL ALCOHOL  | Ingestion                      | Rat                    | LD50 17,800 mg/kg                                     |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Ingestion                      |                        | LD50 estimated to be 2,000 - 5,000 mg/kg              |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Dermal                         | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg              |
| SILANE_TREATED SILICA                                | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                                    |
| SILANE_TREATED SILICA                                | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 0.691 mg/l                                     |
| SILANE_TREATED SILICA                                | Ingestion                      | Rat                    | LD50 > 5,110 mg/kg                                    |
| 2-HYDROXYETHYL METHACRYLATE (HEMA)                   | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                                    |
| 2-HYDROXYETHYL METHACRYLATE (HEMA)                   | Ingestion                      | Rat                    | LD50 5,564 mg/kg                                      |
| GLYCEROL 1,3-DIMETHACRYLATE                          | Ingestion                      | similar compounds      | LD50 300-2000 mg/kg                                   |
| COPOLYMER OF ACRYLIC AND ITACONIC ACIDS              | Dermal                         | Professional judgement | LD50 estimated to be > 5,000 mg/kg                    |
| COPOLYMER OF ACRYLIC AND ITACONIC ACIDS              | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                                    |
| DIURETHANE DIMETHACRYLATE (UDMA)                     | Dermal                         | Professional judgement | LD50 estimated to be > 5,000 mg/kg                    |
| DIURETHANE DIMETHACRYLATE (UDMA)                     | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                                    |
| DIPHENYLIODONIUM HEXAFLUOROPHOSPHATE                 | Ingestion                      | Rat                    | LD50 32 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                                    |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|------|---------|-------|
|------|---------|-------|

|  |               |                           |
|--|---------------|---------------------------|
| ETHYL ALCOHOL  | Rabbit        | No significant irritation |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Not available | Minimal irritation        |
| SILANE TREATED SILICA                                | Rabbit        | No significant irritation |
| 2-HYDROXYETHYL METHACRYLATE (HEMA)                   | Rabbit        | Minimal irritation        |
| DIPHENYLIODONIUM HEXAFLUOROPHOSPHATE                 | Rabbit        | No significant irritation |
| ETHYL 4-DIMETHYL AMINO BENZOATE (EDMAB)              | Rabbit        | No significant irritation |

**Serious Eye Damage/Irritation**

| Name   | Species       | Value                     |
|--|---------------|---------------------------|
| ETHYL ALCOHOL  | Rabbit        | Moderate irritant         |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Not available | Moderate irritant         |
| SILANE TREATED SILICA                                | Rabbit        | No significant irritation |
| 2-HYDROXYETHYL METHACRYLATE (HEMA)                   | Rabbit        | Moderate irritant         |
| DIPHENYLIODONIUM HEXAFLUOROPHOSPHATE                 | Rabbit        | Mild irritant             |
| ETHYL 4-DIMETHYL AMINO BENZOATE (EDMAB)              | Rabbit        | Mild irritant             |

**Skin Sensitization**

| Name   | Species          | Value  |
|--|------------------|--|
| ETHYL ALCOHOL  | Human            | Some positive data exist, but the data are not sufficient for classification |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Guinea pig       | Sensitizing  |
| SILANE_TREATED SILICA                                | Human and animal | Not sensitizing  |
| 2-HYDROXYETHYL METHACRYLATE (HEMA)                   | 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  |
|--|----------|--|
| ETHYL ALCOHOL  | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| ETHYL ALCOHOL  | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| SILANE TREATED SILICA                                | In Vitro | Not mutagenic  |
| 2-HYDROXYETHYL METHACRYLATE (HEMA)                   | In vivo  | Not mutagenic  |
| 2-HYDROXYETHYL METHACRYLATE (HEMA)                   | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| DIPHENYLIODONIUM HEXAFLUOROPHOSPHATE                 | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

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

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

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



|  |            |  |       |                       | Duration                       |
|--|------------|--|-------|-----------------------|--------------------------------|
| ETHYL ALCOHOL  | Inhalation | Not toxic to development   | Rat   | NOAEL 38 mg/l         | during gestation               |
| ETHYL ALCOHOL  | Ingestion  | Some positive developmental data exist, but the data are not sufficient for classification | Rat   | NOAEL 5,200 mg/kg/day | prematuring & during gestation |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Ingestion  | Not toxic to female reproduction   | Mouse | NOAEL 0.8 mg/kg/day   | prematuring & during gestation |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Ingestion  | Not toxic to male reproduction   | Mouse | NOAEL 0.8 mg/kg/day   | prematuring & during gestation |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Ingestion  | Not toxic to development   | Mouse | NOAEL 0.8 mg/kg/day   | prematuring & during gestation |
| SILANE_TREATED SILICA                                | Ingestion  | Not toxic to female reproduction   | Rat   | NOAEL 509 mg/kg/day   | 1 generation                   |
| SILANE_TREATED SILICA                                | Ingestion  | Not toxic to male reproduction   | Rat   | NOAEL 497 mg/kg/day   | 1 generation                   |
| SILANE_TREATED SILICA                                | Ingestion  | Not toxic to development   | Rat   | NOAEL 1,350 mg/kg/day | during organogenesis           |
| 2-HYDROXYETHYL METHACRYLATE (HEMA)                   | Ingestion  | Not toxic to female reproduction   | Rat   | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| 2-HYDROXYETHYL METHACRYLATE (HEMA)                   | Ingestion  | Not toxic to male reproduction   | Rat   | NOAEL 1,000 mg/kg/day | 49 days                        |
| 2-HYDROXYETHYL METHACRYLATE (HEMA)                   | Ingestion  | Not toxic to 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 |
|---|------------|-----------------------------------|--|-------------------------|----------------------|-------------------|
| ETHYL ALCOHOL                           | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human                   | LOAEL 2.6 mg/l       | 30 minutes        |
| ETHYL ALCOHOL                           | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | LOAEL 9.4 mg/l       | not available     |
| ETHYL ALCOHOL                           | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Multiple animal species | NOAEL not available  |                   |
| ETHYL ALCOHOL                           | Ingestion  | kidney and/or bladder             | Some positive data exist, but the data are not sufficient for classification | Dog                     | NOAEL 3,000 mg/kg    |                   |
| COPOLYMER OF ACRYLIC AND ITACONIC ACIDS | Ingestion  | nervous system                    | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 5,000 mg/kg    |                   |
| DIPHENYLIODONIUM HEXAFLUOROPHOSPHATE    | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Not available           | Irritation Equivocal |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name          | Route      | Target Organ(s)                      | Value  | Species | Test Result           | Exposure Duration |
|---------------|------------|--------------------------------------|--|---------|-----------------------|-------------------|
| ETHYL ALCOHOL | Inhalation | liver                                | Some positive data exist, but the data are not sufficient for classification | Rabbit  | LOAEL 124 mg/l        | 365 days          |
| ETHYL ALCOHOL | Inhalation | hematopoietic system   immune system | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 25 mg/l         | 14 days           |
| ETHYL ALCOHOL | Ingestion  | liver                                | Some positive data exist, but the data are not sufficient for classification | Rat     | LOAEL 8,000 mg/kg/day | 4 months          |

|  |            |   |  |       |                       |                                |
|--|------------|---|--|-------|-----------------------|--------------------------------|
| ETHYL ALCOHOL  | Ingestion  | kidney and/or bladder   | Some positive data exist, but the data are not sufficient for classification | Dog   | NOAEL 3,000 mg/kg/day | 7 days                         |
| BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BISGMA) | Ingestion  | endocrine system   liver   nervous system   kidney and/or bladder | All data are negative  | Mouse | NOAEL 0.8 mg/kg/day   | prematuring & during gestation |
| SILANE_TREATED SILICA                                | Inhalation | respiratory system   silicosis                                    | All data are negative  | 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.

Incinerate in a permitted waste incineration facility.

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

**SECTION 14: Transport Information**

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

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

Contact 3M for more information.

**311/312 Hazard Categories:**

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

**15.2. State Regulations**

Contact 3M for more information.

**15.3. Chemical Inventories**

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

by the FDA.

Contact 3M for more information.

#### 15.4. International Regulations

Contact 3M for more information.

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

### SECTION 16: Other information

#### NFPA Hazard Classification

**Health: 2 Flammability: 3 Instability: 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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|------------------------|-----------|-------------------------|----------|
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