

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

075032354

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

075032370



## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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| <b>Issue Date:</b>     | 01/07/22  | <b>Supersedes Date:</b> | 06/21/21 |

### Product identifier

3M™ Scotchbond™ Universal Plus IntroKit Vial (41293)

### ID Number(s):

UU-0109-0320-9

7100227803

### Recommended use

Dental Product, Dental Adhesive and Etching Gel

### Restrictions on use

For use only by dental professionals in approved indications.

### 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)         |

### 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:**

29-8286-6, 41-4437-4

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**Document Group:** 41-4437-4  
**Issue Date:** 12/21/21

**Version Number:** 5.00  
**Supersedes Date:** 09/10/21

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Scotchbond™ Universal Plus Vial (41294, 41295, 41296, 41307)

#### Product Identification Numbers

UU-0109-6374-0, UU-0109-6375-7, UU-0109-6376-5  
4100046864, 4100047017, 4100046863

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

##### Recommended use

Dental Product, For use only by dental professionals in approved indications

##### Restrictions on use

Dental Adhesive

#### 1.3. Supplier's details

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

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard identification

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

#### 2.1. Hazard classification

Flammable Liquid: Category 2.  
Serious Eye Damage/Irritation: Category 1.  
Skin Corrosion/Irritation: Category 2.  
Skin Sensitizer: Category 1.  
Reproductive Toxicity: Category 1B.

#### 2.2. Label elements

**Signal word**

Danger

**Symbols**

Flame | Corrosion | Exclamation mark | Health Hazard |

**Pictograms****Hazard Statements**

Highly flammable liquid and vapor.

Causes serious eye damage.

Causes skin 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.

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

Take precautionary measures against static discharge.

Keep container tightly closed.

Avoid breathing vapors.

Wear protective gloves and eye/face protection.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

**Response:**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

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

Take off contaminated clothing and wash it before reuse.

IF exposed or concerned: Get medical advice/attention.

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

**Storage:**

Store in a well-ventilated place. Keep cool.

**Disposal:**

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

**2.3. Hazards not otherwise classified**

May cause chemical gastrointestinal burns.

12% of the mixture consists of ingredients of unknown acute oral toxicity.

12% of the mixture consists of ingredients of unknown acute dermal toxicity.

### SECTION 3: Composition/information on ingredients

| Ingredient                                                                                                                      | C.A.S. No.   | % by Wt                |
|---------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------|
| 2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers        | 2305048-54-6 | 25 - 35 Trade Secret * |
| 2-HYDROXYETHYL METHACRYLATE                                                                                                     | 868-77-9     | 15 - 25 Trade Secret * |
| 2-Propenoic acid, 2-methyl-, reaction products with 1,10-decanediol and phosphorus oxide (P2O5)                                 | 1207736-18-2 | < 20 Trade Secret *    |
| 2-Propenoic acid, 2-methyl-, 3-(triethoxysilyl)propyl ester, reaction products with silica and 3-(triethoxysilyl)-1-propanamine | 2680625-03-8 | 5 - 15 Trade Secret *  |
| ETHANOL                                                                                                                         | 64-17-5      | 5 - 15 Trade Secret *  |
| WATER                                                                                                                           | 7732-18-5    | 5 - 15 Trade Secret *  |
| Synthetic amorphous silica, fumed, crystalline-free                                                                             | 112945-52-5  | < 10 Trade Secret *    |
| METHACRYLIC ACID, 3-(TRIETHOXSILYL)PROPYL ESTER                                                                                 | 21142-29-0   | < 5 Trade Secret *     |
| CAMPHORQUINONE                                                                                                                  | 10373-78-1   | < 2 Trade Secret *     |
| COPOLYMER OF ACRYLIC AND ITACONIC ACID                                                                                          | 25948-33-8   | < 2 Trade Secret *     |
| N,N-DIMETHYLBENZOCAINE                                                                                                          | 10287-53-3   | < 2 Trade Secret *     |
| (3-AMINOPROPYL)TRIETHOXSILANE                                                                                                   | 919-30-2     | < 0.5 Trade Secret *   |
| DIETHYLENE GLYCOL DIMETHACRYLATE                                                                                                | 2358-84-1    | < 0.5 Trade Secret *   |
| Acetic acid, copper(2+) salt, monohydrate                                                                                       | 6046-93-1    | < 0.1 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:

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

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 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

| <u>Substance</u>         | <u>Condition</u>  |
|--------------------------|-------------------|
| Formaldehyde             | During Combustion |
| Carbon monoxide          | During Combustion |
| Carbon dioxide           | During Combustion |
| Irritant Vapors or Gases | During Combustion |
| Oxides of Nitrogen       | During Combustion |

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

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

## SECTION 6: Accidental release measures

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

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with detergent and water. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Do not 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. Use personal protective equipment (gloves, respirators, etc.) as required.

### 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          |
|-------------------|-------------|--------|-------------------------------------------------------------------------------------|------------------------------|
| SILICA, AMORPHOUS | 112945-52-5 | OSHA   | TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m <sup>3</sup>        |                              |
| COPPER COMPOUNDS  | 6046-93-1   | ACGIH  | TWA(as Cu, fume):0.2 mg/m <sup>3</sup> ;TWA(as Cu dust or mist):1 mg/m <sup>3</sup> |                              |
| ETHANOL           | 64-17-5     | ACGIH  | STEL:1000 ppm                                                                       | A3: Confirmed animal carcin. |
| ETHANOL           | 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

#### Appearance

Physical state

Liquid

Color

Yellow

Specific Physical Form:

Viscous Liquid

Odor

Alcohol

Odor threshold

No Data Available

|                                             |                                               |
|---------------------------------------------|-----------------------------------------------|
| pH                                          | <i>Not Applicable</i>                         |
| Melting point                               | <i>No Data Available</i>                      |
| Boiling Point                               | > 78 °C                                       |
| Flash Point                                 | Approximately 21 °C [Test Method: Closed Cup] |
| Evaporation rate                            | <i>No Data Available</i>                      |
| Flammability (solid, gas)                   | <i>Not Applicable</i>                         |
| 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                                     | Approximately 1.1 g/cm <sup>3</sup>           |
| Specific Gravity                            | Approximately 1.1                             |
| Solubility in Water                         | Appreciable                                   |
| 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>Not Applicable</i>                         |
| Volatile Organic Compounds                  | <i>No Data Available</i>                      |
| Percent volatile                            | <i>No Data Available</i>                      |
| VOC Less H <sub>2</sub> O & Exempt Solvents | <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

#### 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:

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

##### Skin Contact:

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

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

##### Eye Contact:

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

##### Ingestion:

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

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.

##### 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                                                                                                          | Dermal              |                        | No data available; calculated ATE >5,000 mg/kg |
| Overall product                                                                                                          | Ingestion           |                        | No data available; calculated ATE >5,000 mg/kg |
| 2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers | Dermal              | Professional judgement | LD50 estimated to be > 5,000 mg/kg             |
| 2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers | Ingestion           | Rat                    | LD50 > 2,000 mg/kg                             |
| 2-HYDROXYETHYL METHACRYLATE                                                                                              | Dermal              | Rabbit                 | LD50 > 5,000 mg/kg                             |
| 2-HYDROXYETHYL METHACRYLATE                                                                                              | Ingestion           | Rat                    | LD50 5,564 mg/kg                               |
| ETHANOL                                                                                                                  | Dermal              | Rabbit                 | LD50 > 15,800 mg/kg                            |
| ETHANOL                                                                                                                  | Inhalation-Vapor (4 | Rat                    | LC50 124.7 mg/l                                |

|                                                                                                 | hours)                         |                        |                                          |
|-------------------------------------------------------------------------------------------------|--------------------------------|------------------------|------------------------------------------|
| ETHANOL                                                                                         | Ingestion                      | Rat                    | LD50 17,800 mg/kg                        |
| 2-Propenoic acid, 2-methyl-, reaction products with 1,10-decanediol and phosphorus oxide (P2O5) | Dermal                         | Professional judgement | LD50 estimated to be > 5,000 mg/kg       |
| 2-Propenoic acid, 2-methyl-, reaction products with 1,10-decanediol and phosphorus oxide (P2O5) | Ingestion                      | Rat                    | LD50 > 2,000 mg/kg                       |
| Synthetic amorphous silica, fumed, crystalline-free                                             | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                       |
| Synthetic amorphous silica, fumed, crystalline-free                                             | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 0.691 mg/l                        |
| Synthetic amorphous silica, fumed, crystalline-free                                             | Ingestion                      | Rat                    | LD50 > 5,110 mg/kg                       |
| CAMPHORQUINONE                                                                                  | Dermal                         | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| CAMPHORQUINONE                                                                                  | Ingestion                      | Rat                    | LD50 > 2,000 mg/kg                       |
| COPOLYMER OF ACRYLIC AND ITACONIC ACID                                                          | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                       |
| COPOLYMER OF ACRYLIC AND ITACONIC ACID                                                          | Dermal                         | similar health hazards | LD50 estimated to be > 5,000 mg/kg       |
| N,N-DIMETHYLBENZOCAINE                                                                          | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                       |
| N,N-DIMETHYLBENZOCAINE                                                                          | Ingestion                      | Rat                    | LD50 > 2,000 mg/kg                       |
| (3-AMINOPROPYL)TRIETHOXSILANE                                                                   | Dermal                         | Rabbit                 | LD50 4,290 mg/kg                         |
| (3-AMINOPROPYL)TRIETHOXSILANE                                                                   | Ingestion                      | Rat                    | LD50 1,570 mg/kg                         |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                                                                                                                     | Species       | Value                     |
|--------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------|
| Overall product                                                                                                          | In vitro data | Irritant                  |
| 2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers | In vitro data | Irritant                  |
| 2-HYDROXYETHYL METHACRYLATE                                                                                              | Rabbit        | Minimal irritation        |
| ETHANOL                                                                                                                  | Rabbit        | No significant irritation |
| 2-Propenoic acid, 2-methyl-, reaction products with 1,10-decanediol and phosphorus oxide (P2O5)                          | In vitro data | Corrosive                 |
| Synthetic amorphous silica, fumed, crystalline-free                                                                      | Rabbit        | No significant irritation |
| N,N-DIMETHYLBENZOCAINE                                                                                                   | Rabbit        | No significant irritation |
| (3-AMINOPROPYL)TRIETHOXSILANE                                                                                            | Rabbit        | Corrosive                 |

#### Serious Eye Damage/Irritation

| Name                                                                                                                     | Species       | Value                     |
|--------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------|
| 2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers | In vitro data | No significant irritation |
| 2-HYDROXYETHYL METHACRYLATE                                                                                              | Rabbit        | Moderate irritant         |
| ETHANOL                                                                                                                  | Rabbit        | Severe irritant           |
| 2-Propenoic acid, 2-methyl-, reaction products with 1,10-decanediol and phosphorus oxide (P2O5)                          | In vitro data | Corrosive                 |
| Synthetic amorphous silica, fumed, crystalline-free                                                                      | Rabbit        | No significant irritation |
| N,N-DIMETHYLBENZOCAINE                                                                                                   | Rabbit        | No significant irritation |
| (3-AMINOPROPYL)TRIETHOXSILANE                                                                                            | Rabbit        | Corrosive                 |

#### Skin Sensitization

| Name                                                                                                                     | Species                | Value       |
|--------------------------------------------------------------------------------------------------------------------------|------------------------|-------------|
| 2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers | Professional judgement | Sensitizing |
| 2-HYDROXYETHYL METHACRYLATE                                                                                              | Human and              | Sensitizing |

|                                                                                                 |                  |                |
|-------------------------------------------------------------------------------------------------|------------------|----------------|
|                                                                                                 | animal           |                |
| ETHANOL                                                                                         | Human            | Not classified |
| 2-Propenoic acid, 2-methyl-, reaction products with 1,10-decanediol and phosphorus oxide (P2O5) | Mouse            | Sensitizing    |
| Synthetic amorphous silica, fumed, crystalline-free                                             | Human and animal | Not classified |
| N,N-DIMETHYLBENZOCAINE                                                                          |                  | Not classified |
| (3-AMINOPROPYL)TRIETHOXSILANE                                                                   | 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-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers | In vivo  | Not mutagenic                                                                |
| 2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 2-HYDROXYETHYL METHACRYLATE                                                                                              | In vivo  | Not mutagenic                                                                |
| 2-HYDROXYETHYL METHACRYLATE                                                                                              | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| ETHANOL                                                                                                                  | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| ETHANOL                                                                                                                  | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| 2-Propenoic acid, 2-methyl-, reaction products with 1,10-decanediol and phosphorus oxide (P2O5)                          | In Vitro | Not mutagenic                                                                |
| Synthetic amorphous silica, fumed, crystalline-free                                                                      | In Vitro | Not mutagenic                                                                |
| N,N-DIMETHYLBENZOCAINE                                                                                                   | In vivo  | Not mutagenic                                                                |
| N,N-DIMETHYLBENZOCAINE                                                                                                   | In Vitro | Some positive data exist, but the data are not sufficient for classification |

### Carcinogenicity

| Name                                                | Route         | Species                 | Value                                                                        |
|-----------------------------------------------------|---------------|-------------------------|------------------------------------------------------------------------------|
| ETHANOL                                             | Ingestion     | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Synthetic amorphous silica, fumed, crystalline-free | 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            |
|--------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------|---------|-----------------------|------------------------------|
| 2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers | Ingestion | Not classified for female reproduction | Rat     | NOAEL 1,000 mg/kg/day | premating into lactation     |
| 2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 1,000 mg/kg/day | 29 days                      |
| 2-Propenoic acid, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers | Ingestion | Not classified for development         | Rat     | NOAEL 1,000 mg/kg/day | premating into lactation     |
| 2-HYDROXYETHYL METHACRYLATE                                                                                              | Ingestion | Not classified for female reproduction | Rat     | NOAEL 1,000 mg/kg/day | premating & during gestation |
| 2-HYDROXYETHYL METHACRYLATE                                                                                              | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 1,000           | 49 days                      |

|                                                     |            |                                        |     | mg/kg/day             |                              |
|-----------------------------------------------------|------------|----------------------------------------|-----|-----------------------|------------------------------|
| 2-HYDROXYETHYL METHACRYLATE                         | Ingestion  | Not classified for development         | Rat | NOAEL 1,000 mg/kg/day | premating & during gestation |
| ETHANOL                                             | Inhalation | Not classified for development         | Rat | NOAEL 38 mg/l         | during gestation             |
| ETHANOL                                             | Ingestion  | Not classified for development         | Rat | NOAEL 5,200 mg/kg/day | premating & during gestation |
| Synthetic amorphous silica, fumed, crystalline-free | Ingestion  | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day   | 1 generation                 |
| Synthetic amorphous silica, fumed, crystalline-free | Ingestion  | Not classified for male reproduction   | Rat | NOAEL 497 mg/kg/day   | 1 generation                 |
| Synthetic amorphous silica, fumed, crystalline-free | Ingestion  | Not classified for development         | Rat | NOAEL 1,350 mg/kg/day | during organogenesis         |
| N,N-DIMETHYLBENZOCAINE                              | Ingestion  | Not classified for female reproduction | Rat | NOAEL 600 mg/kg/day   | premating into lactation     |
| N,N-DIMETHYLBENZOCAINE                              | Ingestion  | Not classified for development         | Rat | NOAEL 50 mg/kg/day    | premating into lactation     |
| N,N-DIMETHYLBENZOCAINE                              | Ingestion  | Toxic to male reproduction             | Rat | NOAEL 50 mg/kg/day    | 53 days                      |

### 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-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL Not available |                   |
| ETHANOL                                                                                                                  | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | LOAEL 9.4 mg/l      | not available     |
| ETHANOL                                                                                                                  | Inhalation | central nervous system depression | Not classified                                                               | Human and animal        | NOAEL not available |                   |
| ETHANOL                                                                                                                  | Ingestion  | central nervous system depression | Not classified                                                               | Multiple animal species | NOAEL not available |                   |
| ETHANOL                                                                                                                  | Ingestion  | kidney and/or bladder             | Not classified                                                               | Dog                     | NOAEL 3,000 mg/kg   |                   |
| 2-Propenoic acid, 2-methyl-, reaction products with 1,10-decanediol and phosphorus oxide (P2O5)                          | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL Not available |                   |
| COPOLYMER OF ACRYLIC AND ITACONIC 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, 2-methyl-, diesters with 4,6-dibromo-1,3-benzenediol 2-(2-hydroxyethoxy)ethyl 3-hydroxypropyl diethers | Ingestion | heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   muscles   nervous system   eyes   kidney and/or | Not classified | Rat     | NOAEL 1,000 mg/kg/day | 29 days           |

|                                                     |            |                                                                                                                                                                                                              |                                                                              |        |                       |                       |
|-----------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------|-----------------------|-----------------------|
|                                                     |            | bladder   respiratory system                                                                                                                                                                                 |                                                                              |        |                       |                       |
| ETHANOL                                             | Inhalation | liver                                                                                                                                                                                                        | Some positive data exist, but the data are not sufficient for classification | Rabbit | LOAEL 124 mg/l        | 365 days              |
| ETHANOL                                             | Inhalation | hematopoietic system   immune system                                                                                                                                                                         | Not classified                                                               | Rat    | NOAEL 25 mg/l         | 14 days               |
| ETHANOL                                             | Ingestion  | liver                                                                                                                                                                                                        | Some positive data exist, but the data are not sufficient for classification | Rat    | LOAEL 8,000 mg/kg/day | 4 months              |
| ETHANOL                                             | Ingestion  | kidney and/or bladder                                                                                                                                                                                        | Not classified                                                               | Dog    | NOAEL 3,000 mg/kg/day | 7 days                |
| Synthetic amorphous silica, fumed, crystalline-free | Inhalation | respiratory system   silicosis                                                                                                                                                                               | Not classified                                                               | Human  | NOAEL Not available   | occupational exposure |
| COPOLYMER OF ACRYLIC AND ITACONIC ACID              | Ingestion  | endocrine system   hematopoietic system   liver                                                                                                                                                              | Not classified                                                               | Rat    | NOAEL 200 mg/kg/day   | 28 days               |
| COPOLYMER OF ACRYLIC AND ITACONIC 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               |
| N,N-DIMETHYLBENZOCAINE                              | Ingestion  | hematopoietic system                                                                                                                                                                                         | Some positive data exist, but the data are not sufficient for classification | Rat    | NOAEL 74 mg/kg/day    | 28 days               |
| N,N-DIMETHYLBENZOCAINE                              | 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               |

**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 completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. If no other disposal options are available, waste product that has been completely cured or polymerized may be placed in a landfill properly designed for industrial waste.

**EPA Hazardous Waste Number (RCRA):** D001 (Ignitable), D035 (Methyl ethyl ketone)

**SECTION 14: Transport Information**

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

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

Contact 3M for more information.

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

Flammable (gases, aerosols, liquids, or solids)

**Health Hazards**

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**

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:** 3 **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.

**Document Group:** 41-4437-4  
**Issue Date:** 12/21/21

**Version Number:** 5.00  
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## Safety Data Sheet

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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Scotchbond™ Universal Etchant (41263)

#### Product Identification Numbers

| ID Number      | UPC | ID Number      | UPC |
|----------------|-----|----------------|-----|
| LE-F100-1014-5 |     | LE-F100-1040-4 |     |
| 70-2011-3906-3 |     | 70-2011-4006-1 |     |
| 70-2011-4007-9 |     |                |     |

7000055181, 7000055191, 7100007505

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

##### Recommended use

Dental Product, Etching gel

##### 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

Corrosive to metal: Category 1.

Serious Eye Damage/Irritation: Category 1.

Skin Corrosion/Irritation: Category 1C.

**2.2. Label elements****Signal word**

Danger

**Symbols**

Corrosion |

**Pictograms****Hazard Statements**

May be corrosive to metals.

Causes severe skin burns and eye damage.

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

Keep only in original container.

Wear protective gloves, protective clothing, and eye/face protection.

Wash thoroughly after handling.

**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.

Wash contaminated clothing before reuse.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Absorb spillage to prevent material damage.

**Storage:**

Store in a corrosive resistant container with a resistant inner liner.

**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                |
|-----------------------------------------------------|-------------|------------------------|
| WATER                                               | 7732-18-5   | 50 - 65 Trade Secret * |
| PHOSPHORIC ACID                                     | 7664-38-2   | 30 - 40 Trade Secret * |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | 112945-52-5 | 1 - 10 Trade Secret *  |
| POLYETHYLENE GLYCOL                                 | 25322-68-3  | 1 - 5 Trade Secret *   |
| ALUMINUM OXIDE                                      | 1344-28-1   | < 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). 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 water. 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**

Avoid prolonged or repeated skin contact. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Do not get in eyes.

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

Store away from heat. Keep only in original container. Store in a corrosive resistant container with a resistant inner liner. Store away from strong bases.

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

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

| <b>Ingredient</b>             | <b>C.A.S. No.</b> | <b>Agency</b> | <b>Limit type</b>                                                                     | <b>Additional Comments</b>     |
|-------------------------------|-------------------|---------------|---------------------------------------------------------------------------------------|--------------------------------|
| SILICA, AMORPHOUS             | 112945-52-5       | OSHA          | TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m <sup>3</sup>          |                                |
| ALUMINUM OXIDE                | 1344-28-1         | OSHA          | TWA(as total dust):15 mg/m <sup>3</sup> ;TWA(respirable fraction):5 mg/m <sup>3</sup> |                                |
| Aluminum, insoluble compounds | 1344-28-1         | ACGIH         | TWA(respirable fraction):1 mg/m <sup>3</sup>                                          | A4: Not class. as human carcin |
| POLYETHYLENE GLYCOL           | 25322-68-3        | AIHA          | TWA:10 mg/m <sup>3</sup>                                                              |                                |
| PHOSPHORIC ACID               | 7664-38-2         | ACGIH         | TWA:1 mg/m <sup>3</sup> ;STEL:3 mg/m <sup>3</sup>                                     |                                |
| PHOSPHORIC ACID               | 7664-38-2         | OSHA          | TWA:1 mg/m <sup>3</sup>                                                               |                                |

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

Blue

**Specific Physical Form:**

Gel

**Odor**

Slight Odor, Characteristic Odor

**Odor threshold**

*No Data Available*

**pH**

< 1

**Melting point**

*Not Applicable*

**Boiling Point**

*No Data Available*

**Flash Point**

> 100 °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**

1.1 - 1.2 g/ml

**Specific Gravity**

1.1 - 1.2 [Ref Std: WATER=1]

**Solubility in Water**

Complete

**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*

**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 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 bases

## 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:**

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

#### **Skin Contact:**

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

#### **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.

#### **Toxicological Data**

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

#### **Acute Toxicity**

| Name            | Route     | Species | Value                                                 |
|-----------------|-----------|---------|-------------------------------------------------------|
| Overall product | Dermal    |         | No data available; calculated ATE >5,000 mg/kg        |
| Overall product | Ingestion |         | No data available; calculated ATE 2,000 - 5,000 mg/kg |
| PHOSPHORIC ACID | Dermal    | Rabbit  | LD50 2,740 mg/kg                                      |
| PHOSPHORIC ACID | Ingestion | Rat     | LD50 1,530 mg/kg                                      |

|                                                     |                                |        |                                    |
|-----------------------------------------------------|--------------------------------|--------|------------------------------------|
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Dermal                         | Rabbit | LD50 > 5,000 mg/kg                 |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Inhalation-Dust/Mist (4 hours) | Rat    | LC50 > 0.691 mg/l                  |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Ingestion                      | Rat    | LD50 > 5,110 mg/kg                 |
| POLYETHYLENE GLYCOL                                 | Dermal                         | Rabbit | LD50 > 20,000 mg/kg                |
| POLYETHYLENE GLYCOL                                 | Ingestion                      | Rat    | LD50 32,770 mg/kg                  |
| ALUMINUM OXIDE                                      | Dermal                         |        | LD50 estimated to be > 5,000 mg/kg |
| ALUMINUM OXIDE                                      | Inhalation-Dust/Mist (4 hours) | Rat    | LC50 > 2.3 mg/l                    |
| ALUMINUM OXIDE                                      | Ingestion                      | Rat    | LD50 > 5,000 mg/kg                 |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name                                                | Species | Value                     |
|-----------------------------------------------------|---------|---------------------------|
| PHOSPHORIC ACID                                     | Rabbit  | Corrosive                 |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Rabbit  | No significant irritation |
| POLYETHYLENE GLYCOL                                 | Rabbit  | Minimal irritation        |
| ALUMINUM OXIDE                                      | Rabbit  | No significant irritation |

### Serious Eye Damage/Irritation

| Name                                                | Species                 | Value                     |
|-----------------------------------------------------|-------------------------|---------------------------|
| PHOSPHORIC ACID                                     | official classification | Corrosive                 |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Rabbit                  | No significant irritation |
| POLYETHYLENE GLYCOL                                 | Rabbit                  | Mild irritant             |
| ALUMINUM OXIDE                                      | Rabbit                  | No significant irritation |

### Skin Sensitization

| Name                                                | Species          | Value          |
|-----------------------------------------------------|------------------|----------------|
| PHOSPHORIC ACID                                     | Human            | Not classified |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Human and animal | Not classified |
| POLYETHYLENE GLYCOL                                 | Guinea pig       | Not classified |

### Respiratory Sensitization

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

### Germ Cell Mutagenicity

| Name                                                | Route    | Value         |
|-----------------------------------------------------|----------|---------------|
| PHOSPHORIC ACID                                     | In Vitro | Not mutagenic |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | In Vitro | Not mutagenic |
| POLYETHYLENE GLYCOL                                 | In Vitro | Not mutagenic |
| POLYETHYLENE GLYCOL                                 | In vivo  | Not mutagenic |
| ALUMINUM OXIDE                                      | In Vitro | Not mutagenic |

### Carcinogenicity

| Name                                                | Route         | Species | Value                                                                        |
|-----------------------------------------------------|---------------|---------|------------------------------------------------------------------------------|
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Not Specified | Mouse   | Some positive data exist, but the data are not sufficient for classification |
| POLYETHYLENE GLYCOL                                 | Ingestion     | Rat     | Not carcinogenic                                                             |
| ALUMINUM OXIDE                                      | Inhalation    | Rat     | Not carcinogenic                                                             |

## Reproductive Toxicity

### Reproductive and/or Developmental Effects

| Name                                                | Route         | Value                                              | Species | Test Result                   | Exposure Duration    |
|-----------------------------------------------------|---------------|----------------------------------------------------|---------|-------------------------------|----------------------|
| PHOSPHORIC ACID                                     | Ingestion     | Not classified for female reproduction             | Rat     | NOAEL 750 mg/kg/day           | 2 generation         |
| PHOSPHORIC ACID                                     | Ingestion     | Not classified for male reproduction               | Rat     | NOAEL 750 mg/kg/day           | 2 generation         |
| PHOSPHORIC ACID                                     | Ingestion     | Not classified for development                     | Rat     | NOAEL 750 mg/kg/day           | 2 generation         |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Ingestion     | Not classified for female reproduction             | Rat     | NOAEL 509 mg/kg/day           | 1 generation         |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Ingestion     | Not classified for male reproduction               | Rat     | NOAEL 497 mg/kg/day           | 1 generation         |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Ingestion     | Not classified for development                     | Rat     | NOAEL 1,350 mg/kg/day         | during organogenesis |
| POLYETHYLENE GLYCOL                                 | Ingestion     | Not classified for female reproduction             | Rat     | NOAEL 1,125 mg/kg/day         | during gestation     |
| POLYETHYLENE GLYCOL                                 | Ingestion     | Not classified for male reproduction               | Rat     | NOAEL 5699 +/- 1341 mg/kg/day | 5 days               |
| POLYETHYLENE GLYCOL                                 | Not Specified | Not classified for reproduction and/or development |         | NOEL N/A                      |                      |
| POLYETHYLENE GLYCOL                                 | Ingestion     | Not classified for development                     | Mouse   | NOAEL 562 mg/animal/day       | during gestation     |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name                | Route      | Target Organ(s)        | Value                                                                        | Species | Test Result         | Exposure Duration     |
|---------------------|------------|------------------------|------------------------------------------------------------------------------|---------|---------------------|-----------------------|
| PHOSPHORIC ACID     | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human   | NOAEL Not available | occupational exposure |
| POLYETHYLENE GLYCOL | Inhalation | respiratory irritation | Not classified                                                               | Rat     | NOAEL 1.008 mg/l    | 2 weeks               |

### Specific Target Organ Toxicity - repeated exposure

| Name                                                | Route      | Target Organ(s)                                                                                  | Value                                                                        | Species | Test Result           | Exposure Duration     |
|-----------------------------------------------------|------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------|-----------------------|-----------------------|
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Inhalation | respiratory system   silicosis                                                                   | Not classified                                                               | Human   | NOAEL Not available   | occupational exposure |
| POLYETHYLENE GLYCOL                                 | Inhalation | respiratory system                                                                               | Not classified                                                               | Rat     | NOAEL 1.008 mg/l      | 2 weeks               |
| POLYETHYLENE GLYCOL                                 | Ingestion  | kidney and/or bladder   heart   endocrine system   hematopoietic system   liver   nervous system | Not classified                                                               | Rat     | NOAEL 5,640 mg/kg/day | 13 weeks              |
| ALUMINUM OXIDE                                      | Inhalation | pneumoconiosis                                                                                   | Some positive data exist, but the data are not sufficient for classification | Human   | NOAEL Not available   | occupational exposure |
| ALUMINUM OXIDE                                      | Inhalation | pulmonary fibrosis                                                                               | 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.

**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

Corrosive to metal

##### Health Hazards

Hazard Not Otherwise Classified (HNOC)

Serious eye damage or eye irritation

Skin Corrosion or Irritation

**Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):**

| <u><b>Ingredient</b></u>                             | <u><b>C.A.S. No</b></u> | <u><b>% by Wt</b></u> |
|------------------------------------------------------|-------------------------|-----------------------|
| ALUMINUM OXIDE                                       | 1344-28-1               | Trade Secret < 2      |
| ALUMINUM OXIDE (ALUMINUM OXIDE (FIBROUS FORMS ONLY)) | 1344-28-1               | Trade Secret < 2      |

### 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:** 3 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

**Corrosive:** Yes

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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**Supersedes Date:** 09/16/20

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