



## Safety Data Sheet

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
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This Safety Data Sheet has been prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, December 2011)

### IDENTIFICATION:

#### 1.1. Product identifier

12248/ 12348 3M™ ESPE™ Clinpro™ XT Varnish Durable Fluoride Releasing Coating

#### Product Identification Numbers

70-2010-5653-1

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

##### Recommended use

Dental Product, Dental varnish

##### Restrictions on use

For use by dental professionals only.

#### 1.3. Supplier's details

**Address:** 3M Australia - Building A, 1 Rivett Road, North Ryde NSW 2113  
**Telephone:** 136 136  
**E Mail:** productinfo.au@mmm.com  
**Website:** www.3m.com.au

#### 1.4. Emergency telephone number

**Company Emergency Hotline:** EMERGENCY: 1800 097 146 (Australia only)

**This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet for each of these components is included. Please do not separate the component Safety Data Sheets from this cover page. The document numbers of the SDSs for components of this product are:**

25-7233-7, 25-7222-0

One or more components of this KIT is classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011, in accordance with applicable State and Territory legislation.

### TRANSPORT INFORMATION

This KIT and its components are NOT classified as Dangerous Goods.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Safety Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

Greenguard ® is a United States based program. The 'Low VOC' reference related to United States Federal and State regulations exemptions for some solvents.

**3M Australia SDSs are available at [www.3m.com.au](http://www.3m.com.au)**



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|                        |            |                         |            |
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This Safety Data Sheet has been prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, December 2011)

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ ESPE™ CLINPRO™ XT VARNISH DURABLE FLUORIDE-RELEASING COATING, PART B

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

##### Recommended use

Dental Product, Varnish

For Professional use only.

##### Restrictions on use

For use by dental professionals only.

#### 1.3. Supplier's details

**Address:** 3M Australia - Building A, 1 Rivett Road, North Ryde NSW 2113  
**Telephone:** 136 136  
**E Mail:** productinfo.au@mmm.com  
**Website:** www.3m.com.au

#### 1.4. Emergency telephone number

EMERGENCY: 1800 097 146 (Australia only)

### SECTION 2: Hazard identification

This product is classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011, in accordance with applicable State and Territory legislation.

Refer to Section 14 of this Safety Data Sheets for product Dangerous Goods Classification.

#### 2.1. Classification of the substance or mixture

Acute Toxicity (oral): Category 4.

Skin Sensitizer: Category 1.

#### 2.2. Label elements

The label elements below were prepared in accordance with the Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, December 2011). This information may be different from the actual product

## 3M™ ESPE™ CLINPRO™ XT VARNISH DURABLE FLUORIDE-RELEASING COATING, PART B

label.

### Signal word

WARNING!

### Symbols

Exclamation mark |

### Pictograms



### Hazard statements

H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.

### Precautionary statements

#### Prevention:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280E Wear protective gloves.  
P270 Do not eat, drink or smoke when using this product.  
P264 Wash thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.

#### Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.  
P330 Rinse mouth.  
P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.  
P321 Specific treatment (see Notes to Physician on this label).

#### Disposal:

P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

### 2.3. Other assigned/identified product hazards

None known.

### 2.4. Other hazards which do not result in classification

Causes eye irritation.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient                              | CAS Nbr    | % by Weight |
|---|------------|-------------|
| Copolymer of acrylic and itaconic acids | 25948-33-8 | 35 - 45     |
| Water                                   | 7732-18-5  | 30 - 40     |
| 2-hydroxyethyl methacrylate             | 868-77-9   | 15 - 20     |

## 3M™ ESPE™ CLINPRO™ XT VARNISH DURABLE FLUORIDE-RELEASING COATING, PART B

Calcium glycerophosphate

27214-00-2

1 - 10

### 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 ordinary combustible material such as water or foam to extinguish.

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

None inherent in this product.

#### Hazardous Decomposition or By-Products

##### Substance

Carbon monoxide.

Carbon dioxide.

##### Condition

During combustion.

During combustion.

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

No special protective actions for fire-fighters are anticipated.

### SECTION 6: Accidental release measures

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

Evacuate area. Ventilate the area with fresh air. 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

## 3M™ ESPE™ CLINPRO™ XT VARNISH DURABLE FLUORIDE-RELEASING COATING, PART B

Contain spill. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with water. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid breathing dust/fume/gas/mist/vapours/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. A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove.

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

Store away from heat.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

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

### 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.

Select and use eye protection in accordance with AS/NZS 1336. Eye protection should comply with the performance specifications of AS/NZS 1337.

##### 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

|   |                                       |
|---|---------------------------------------|
| Physical state                                    | Liquid.                               |
| Appearance/Odour                                  | Yellow Liquid, Slight Acrylate Odour. |
| Odour threshold                                   | <i>No data available.</i>             |
| pH  | 3.6                                   |
| Melting point/Freezing point                      | <i>Not applicable.</i>                |
| Boiling point/Initial boiling point/Boiling range | <i>No data available.</i>             |

|  |                                    |
|--|------------------------------------|
| Flash point                            | >=93.3 °C [Test Method:Closed Cup] |
| Evaporation rate                       | No data available.                 |
| Flammability (solid, gas)              | Not applicable.                    |
| Flammable Limits(LEL)                  | Not applicable.                    |
| Flammable Limits(UEL)                  | Not applicable.                    |
| Vapour pressure                        | No data available.                 |
| Vapour density                         | No data available.                 |
| Density                                | 1.14 g/ml                          |
| Relative density                       | 1.14 [Ref Std:WATER=1]             |
| Water solubility                       | 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                              | 800 - 1,400 mm <sup>2</sup> /sec   |
| Molecular weight                       | 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. Conditions to avoid

Heat.

### 10.4. Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.5 Incompatible materials

None known.

### 10.6 Hazardous decomposition products

#### Substance

None known.

#### Condition

## 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 labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 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

**3M™ ESPE™ CLINPRO™ XT VARNISH DURABLE FLUORIDE-RELEASING COATING, PART B**

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

**Skin contact**

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

**Eye contact**

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

**Ingestion**

Harmful if swallowed.

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

**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 ATE300 - 2,000 mg/kg |
| Copolymer of acrylic and itaconic acids | Ingestion | Rat                    | LD50 > 5,000 mg/kg                                 |
| Copolymer of acrylic and itaconic acids | Dermal    | similar health hazards | LD50 estimated to be > 5,000 mg/kg                 |
| 2-hydroxyethyl methacrylate             | Dermal    | Rabbit                 | LD50 > 5,000 mg/kg                                 |
| 2-hydroxyethyl methacrylate             | Ingestion | Rat                    | LD50 5,564 mg/kg                                   |
| Calcium glycerophosphate                | Ingestion | similar compounds      | LD50 estimated to be 300 - 2,000 mg/kg             |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                        | Species | Value              |
|-----------------------------|---------|--------------------|
| 2-hydroxyethyl methacrylate | Rabbit  | Minimal irritation |

**Serious Eye Damage/Irritation**

| Name                        | Species | Value             |
|-----------------------------|---------|-------------------|
| 2-hydroxyethyl methacrylate | Rabbit  | Moderate irritant |

**Skin Sensitisation**

| Name                        | Species          | Value       |
|-----------------------------|------------------|-------------|
| 2-hydroxyethyl methacrylate | Human and animal | Sensitising |

**Respiratory Sensitisation**

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

**Germ Cell Mutagenicity**

| Name                        | Route    | Value  |
|-----------------------------|----------|--|
| 2-hydroxyethyl methacrylate | In vivo  | Not mutagenic  |
| 2-hydroxyethyl methacrylate | In Vitro | Some positive data exist, but the data are not sufficient for classification |



**3M™ ESPE™ CLINPRO™ XT VARNISH DURABLE FLUORIDE-RELEASING COATING, PART B****Carcinogenicity**

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

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

| Name                        | Route     | Value                                  | Species | Test result           | Exposure Duration              |
|-----------------------------|-----------|--|---------|-----------------------|--------------------------------|
| 2-hydroxyethyl methacrylate | Ingestion | Not classified for female reproduction | Rat     | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| 2-hydroxyethyl methacrylate | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 1,000 mg/kg/day | 49 days                        |
| 2-hydroxyethyl methacrylate | Ingestion | Not classified for development         | Rat     | NOAEL 1,000 mg/kg/day | prematuring & during gestation |

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

| Name                                    | Route     | Target Organ(s) | Value          | Species | Test result       | Exposure Duration |
|---|-----------|-----------------|----------------|---------|-------------------|-------------------|
| Copolymer of acrylic and itaconic acids | 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 |
|---|-----------|--|----------------|---------|-----------------------|-------------------|
| Copolymer of acrylic and itaconic acids | Ingestion | endocrine system   hematopoietic system   liver  | Not classified | Rat     | NOAEL 200 mg/kg/day   | 28 days           |
| Copolymer of acrylic and itaconic acids | Ingestion | heart   bone, teeth, nails, and/or hair   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system | Not classified | Rat     | NOAEL 2,000 mg/kg/day | 28 days           |

**Aspiration Hazard**

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

**Exposure Levels**

Refer Section 8.1 Control Parameters of this Safety Data Sheet.

**Interactive Effects**

Not determined.

**SECTION 12: Ecological 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. Additional information leading to material classification in

**3M™ ESPE™ CLINPRO™ XT VARNISH DURABLE FLUORIDE-RELEASING COATING, PART B**

Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

**12.1. Toxicity**

**Acute aquatic hazard:**

Not acutely toxic to aquatic life by GHS criteria.

**Chronic aquatic hazard:**

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

| Material                                | CAS Number | Organism       | Type  | Exposure | Test endpoint | Test result |
|---|------------|----------------|---|----------|---------------|-------------|
| Copolymer of acrylic and itaconic acids | 25948-33-8 |                | Data not available or insufficient for classification |          |               |             |
| 2-hydroxyethyl methacrylate             | 868-77-9   | Fathead minnow | Experimental  | 96 hours | LC50          | 227 mg/l    |
| 2-hydroxyethyl methacrylate             | 868-77-9   | Green algae    | Experimental  | 72 hours | EC50          | 710 mg/l    |
| 2-hydroxyethyl methacrylate             | 868-77-9   | Water flea     | Experimental  | 48 hours | EC50          | 380 mg/l    |
| 2-hydroxyethyl methacrylate             | 868-77-9   | Green Algae    | Experimental  | 72 hours | NOEC          | 160 mg/l    |
| 2-hydroxyethyl methacrylate             | 868-77-9   | Water flea     | Experimental  | 21 days  | NOEC          | 24.1 mg/l   |
| Calcium glycerophosphate                | 27214-00-2 |                | Data not available or insufficient for classification |          |               |             |

**12.2. Persistence and degradability**

| Material                                | CAS Number | Test type                       | Duration | Study Type | Test result    | Protocol                  |
|---|------------|---------------------------------|----------|------------|----------------|---------------------------|
| Copolymer of acrylic and itaconic acids | 25948-33-8 | Data not available-insufficient |          |            | N/A            |                           |
| 2-hydroxyethyl methacrylate             | 868-77-9   | Experimental Biodegradation     | 14 days  | BOD        | 95 % BOD/ThBOD | OECD 301C - MITI test (I) |
| Calcium glycerophosphate                | 27214-00-2 | Estimated Biodegradation        | 28 days  | BOD        | 81 % BOD/ThBOD | OECD 301C - MITI test (I) |

**12.3 : Bioaccumulative potential**

| Material                                | CAS Number | Test type   | Duration | Study Type | Test result | Protocol      |
|---|------------|---|----------|------------|-------------|---------------|
| Copolymer of acrylic and itaconic acids | 25948-33-8 | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A           |
| 2-hydroxyethyl methacrylate             | 868-77-9   | Experimental Bioconcentration                         |          | Log Kow    | 0.42        | Other methods |

**3M™ ESPE™ CLINPRO™ XT VARNISH DURABLE FLUORIDE-RELEASING COATING, PART B**

|                          |            |                            |  |                        |     |                                    |
|--------------------------|------------|----------------------------|--|------------------------|-----|------------------------------------|
|                          |            | on                         |  |                        |     |                                    |
| Calcium glycerophosphate | 27214-00-2 | Estimated Bioconcentration |  | Bioaccumulation factor | 1.9 | Estimated: Bioconcentration factor |

**12.4. Mobility in soil**

Please contact manufacturer for more details

**12.5 Other adverse effects**

No information available.

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

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

Incinerate uncured product in a permitted waste incineration facility. 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. Proper destruction may require the use of additional fuel during incineration processes. 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.

**SECTION 14: Transport Information****Australian Dangerous Goods Code (ADG) - Road/Rail Transport**

**UN No.:** Not applicable.

**Proper shipping name:** Not applicable.

**Class/Division:** Not applicable.

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

**Hazchem Code:** Not applicable

**IERG:** Not applicable.

**International Air Transport Association (IATA) - Air Transport**

**UN No.:** Not applicable.

**Proper shipping name:** Not applicable.

**Class/Division:** Not applicable.

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

**International Maritime Dangerous Goods Code (IMDG)- Marine Transport**

**UN No.:** Not applicable.

**Proper shipping name:** Not applicable.

**Class/Division:** Not applicable.

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

**Marine Pollutant:** Not applicable.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Australian Inventory Status:**

This product is regulated by the Therapeutics Goods Administration and is exempt from compliance with the Industrial Chemicals (Notification and Assessment) Act 1989 as amended.

**SECTION 16: Other information**

**Revision information:**

Complete document review.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Safety Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

Greenguard ® is a United States based program. The 'Low VOC' reference related to United States Federal and State regulations exemptions for some solvents.

**3M Australia SDSs are available at [www.3m.com.au](http://www.3m.com.au)**



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This Safety Data Sheet has been prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, December 2011)

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ ESPE™ CLINPRO™ XT VARNISH DURABLE FLUORIDE-RELEASING COATING, PART A

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

##### Recommended use

Dental Product, Varnish

##### Restrictions on use

For use by dental professionals only.

#### 1.3. Supplier's details

**Address:** 3M Australia - Building A, 1 Rivett Road, North Ryde NSW 2113  
**Telephone:** 136 136  
**E Mail:** productinfo.au@mmm.com  
**Website:** www.3m.com.au

#### 1.4. Emergency telephone number

EMERGENCY: 1800 097 146 (Australia only)

### SECTION 2: Hazard identification

This product is classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011, in accordance with applicable State and Territory legislation.

Refer to Section 14 of this Safety Data Sheets for product Dangerous Goods Classification.

#### 2.1. Classification of the substance or mixture

Skin Sensitizer: Category 1B.

#### 2.2. Label elements

The label elements below were prepared in accordance with the Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, December 2011). This information may be different from the actual product label.

#### Signal word

## 3M™ ESPE™ CLINPRO™ XT VARNISH DURABLE FLUORIDE-RELEASING COATING, PART A

WARNING!

### Symbols

Exclamation mark |

### Pictograms



### Hazard statements

H317 May cause an allergic skin reaction.

### Precautionary statements

#### Prevention:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280E Wear protective gloves.  
P272 Contaminated work clothing should not be allowed out of the workplace.

#### Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.  
P321 Specific treatment (see Notes to Physician on this label).

#### Disposal:

P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

### 2.3. Other assigned/identified product hazards

None known.

### 2.4. Other hazards which do not result in classification

May be harmful if swallowed.  
Causes eye irritation.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient   | CAS Nbr    | % by Weight |
|--|------------|-------------|
| 2-hydroxyethyl methacrylate  | 868-77-9   | 10 - 20     |
| Water  | 7732-18-5  | 1 - 10      |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate         | 1565-94-2  | < 2         |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | 68909-20-6 | < 2         |

## 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 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

| <u>Substance</u> | <u>Condition</u>   |
|------------------|--------------------|
| Carbon monoxide. | During combustion. |
| Carbon dioxide.  | During combustion. |

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

No special protective actions for fire-fighters are anticipated.

### SECTION 6: Accidental release measures

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

Evacuate area. Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. 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 get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

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

Store away from heat.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

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

### 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.

Select and use eye protection in accordance with AS/NZS 1336. Eye protection should comply with the performance specifications of AS/NZS 1337.

##### 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

|   |                                      |
|---|--------------------------------------|
| Physical state                                    | Solid.                               |
| Specific Physical Form:                           | Paste                                |
| Appearance/Odour                                  | Off-white to Yellow Paste, No Odour. |
| Odour threshold                                   | <i>No data available.</i>            |
| pH  | <i>Not applicable.</i>               |
| Melting point/Freezing point                      | <i>No data available.</i>            |
| Boiling point/Initial boiling point/Boiling range | <i>Not applicable.</i>               |
| Flash point                                       | No flash point                       |
| Evaporation rate                                  | <i>Not applicable.</i>               |
| Flammability (solid, gas)                         | Not classified                       |



|   |  |
|---|--|
| Flammable Limits(LEL)                       | <i>Not applicable.</i>                                 |
| Flammable Limits(UEL)                       | <i>Not applicable.</i>                                 |
| Vapour pressure                             | <i>Not applicable.</i>                                 |
| Vapour density                              | <i>Not applicable.</i>                                 |
| Density                                     | 1.9 g/cm <sup>3</sup>                                  |
| Relative density                            | 1.9 [Ref Std:WATER=1]                                  |
| Water solubility                            | Nil  |
| Solubility- non-water                       | <i>No data available.</i>                              |
| Partition coefficient: n-octanol/water      | <i>No data available.</i>                              |
| Autoignition temperature                    | <i>Not applicable.</i>                                 |
| Decomposition temperature                   | <i>No data available.</i>                              |
| Viscosity                                   | ≥300,000 mm <sup>2</sup> /sec [Test Method:Brookfield] |
| Molecular weight                            | <i>No data available.</i>                              |
| Volatile organic compounds (VOC)            | <i>Not applicable.</i>                                 |
| Percent volatile                            | Nil  |
| VOC less H <sub>2</sub> O & exempt solvents | <i>Not applicable.</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. Conditions to avoid

Heat.

### 10.4. Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.5 Incompatible materials

None known.

### 10.6 Hazardous decomposition products

#### Substance

None known.

#### Condition

## 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 labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 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:

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**Inhalation**

No health effects are expected.

**Skin contact**

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

**Eye contact**

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

**Ingestion**

May be harmful if swallowed.

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

**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 ATE2,000 - 5,000 mg/kg |
| 2-hydroxyethyl methacrylate  | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                                   |
| 2-hydroxyethyl methacrylate  | Ingestion                      | Rat                    | LD50 5,564 mg/kg                                     |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate         | Ingestion                      |                        | LD50 estimated to be 2,000 - 5,000 mg/kg             |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate         | Dermal                         | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg             |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                                   |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 0.691 mg/l                                    |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Ingestion                      | Rat                    | LD50 > 5,110 mg/kg                                   |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name   | Species       | Value                     |
|--|---------------|---------------------------|
| 2-hydroxyethyl methacrylate  | Rabbit        | Minimal irritation        |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate         | Not available | Minimal irritation        |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Rabbit        | No significant irritation |

**Serious Eye Damage/Irritation**

| Name   | Species       | Value             |
|--|---------------|-------------------|
| 2-hydroxyethyl methacrylate  | Rabbit        | Moderate irritant |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | Not available | Moderate irritant |

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|  |        |                           |
|--|--------|---------------------------|
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Rabbit | No significant irritation |
|--|--------|---------------------------|

**Skin Sensitisation**

| Name   | Species          | Value          |
|--|------------------|----------------|
| 2-hydroxyethyl methacrylate  | Human and animal | Sensitising    |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate         | Guinea pig       | Sensitising    |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Human and animal | Not classified |

**Respiratory Sensitisation**

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

**Germ Cell Mutagenicity**

| Name   | Route    | Value  |
|--|----------|--|
| 2-hydroxyethyl methacrylate  | In vivo  | Not mutagenic  |
| 2-hydroxyethyl methacrylate  | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate         | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | In Vitro | Not mutagenic  |

**Carcinogenicity**

| Name   | Route          | Species | Value  |
|--|----------------|---------|--|
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with 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              |
|--|-----------|--|---------|-----------------------|--------------------------------|
| 2-hydroxyethyl methacrylate  | Ingestion | Not classified for female reproduction | Rat     | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| 2-hydroxyethyl methacrylate  | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 1,000 mg/kg/day | 49 days                        |
| 2-hydroxyethyl methacrylate  | Ingestion | Not classified for development         | Rat     | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | Ingestion | Not classified for female reproduction | Mouse   | NOAEL 0.8 mg/kg/day   | prematuring & during gestation |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-                              | Ingestion | Not classified for male reproduction   | Mouse   | NOAEL 0.8 mg/kg/day   | prematuring & during gestation |

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|  |           |  |       |                       |                                |
|--|-----------|--|-------|-----------------------|--------------------------------|
| propanediyl)] bismethacrylate  |           |  |       |                       |                                |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate         | Ingestion | Not classified for development         | Mouse | NOAEL 0.8 mg/kg/day   | prematuring & during gestation |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Ingestion | Not classified for female reproduction | Rat   | NOAEL 509 mg/kg/day   | 1 generation                   |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Ingestion | Not classified for male reproduction   | Rat   | NOAEL 497 mg/kg/day   | 1 generation                   |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Ingestion | Not classified for development         | Rat   | NOAEL 1,350 mg/kg/day | during organogenesis           |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

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

**Specific Target Organ Toxicity - repeated exposure**

| Name   | Route      | Target Organ(s)   | Value          | Species | Test result         | Exposure Duration              |
|--|------------|---|----------------|---------|---------------------|--------------------------------|
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate         | Ingestion  | endocrine system   liver   nervous system   kidney and/or bladder | Not classified | Mouse   | NOAEL 0.8 mg/kg/day | prematuring & during gestation |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Inhalation | respiratory system   silicosis                                    | 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.

**Exposure Levels**

Refer Section 8.1 Control Parameters of this Safety Data Sheet.

**Interactive Effects**

Not determined.

**SECTION 12: Ecological 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. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

**12.1. Toxicity****Acute aquatic hazard:**

Not acutely toxic to aquatic life by GHS criteria.

**Chronic aquatic hazard:**

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

| Material  | CAS Number | Organism       | Type  | Exposure | Test endpoint | Test result |
|---|------------|----------------|---|----------|---------------|-------------|
| 2-hydroxyethyl methacrylate   | 868-77-9   | Fathead minnow | Experimental  | 96 hours | LC50          | 227 mg/l    |
| 2-hydroxyethyl methacrylate   | 868-77-9   | Green algae    | Experimental  | 72 hours | EC50          | 710 mg/l    |
| 2-hydroxyethyl methacrylate   | 868-77-9   | Water flea     | Experimental  | 48 hours | EC50          | 380 mg/l    |
| 2-hydroxyethyl methacrylate   | 868-77-9   | Green Algae    | Experimental  | 72 hours | NOEC          | 160 mg/l    |
| 2-hydroxyethyl methacrylate   | 868-77-9   | Water flea     | Experimental  | 21 days  | NOEC          | 24.1 mg/l   |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate          | 1565-94-2  |                | Data not available or insufficient for classification |          |               |             |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl) propyl ester, hydrolysis products with silica | 68909-20-6 | Algae          | Estimated   | 72 hours | EC50          | >100 mg/l   |

**12.2. Persistence and degradability**

| Material  | CAS Number | Test type                   | Duration | Study Type | Test result       | Protocol                  |
|---|------------|-----------------------------|----------|------------|-------------------|---------------------------|
| 2-hydroxyethyl methacrylate                             | 868-77-9   | Experimental Biodegradation | 14 days  | BOD        | 95 %<br>BOD/ThBOD | OECD 301C - MITI test (I) |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1- | 1565-94-2  | Estimated Biodegradation    | 28 days  | BOD        | 32 % weight       | OECD 301C - MITI test (I) |

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|   |            |                                  |  |  |     |  |
|---|------------|----------------------------------|--|--|-----|--|
| propanediyl)]<br>bismethacrylate  |            |                                  |  |  |     |  |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl) propyl ester, hydrolysis products with silica | 68909-20-6 | Data not available- insufficient |  |  | N/A |  |

**12.3 : Bioaccumulative potential**

| Material  | CAS Number | Test type   | Duration | Study Type             | Test result | Protocol                           |
|---|------------|---|----------|------------------------|-------------|------------------------------------|
| 2-hydroxyethyl methacrylate   | 868-77-9   | Experimental Bioconcentration                         |          | Log Kow                | 0.42        | Other methods                      |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate          | 1565-94-2  | Estimated Bioconcentration                            |          | Bioaccumulation factor | 5.8         | Estimated: Bioconcentration factor |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl) propyl ester, hydrolysis products with silica | 68909-20-6 | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                                |

**12.4. Mobility in soil**

Please contact manufacturer for more details

**12.5 Other adverse effects**

No information available.

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

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

Incinerate uncured product in a permitted waste incineration facility. 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. Proper destruction may require the use of additional fuel during incineration processes. 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.

**SECTION 14: Transport Information****Australian Dangerous Goods Code (ADG) - Road/Rail Transport**

UN No.: Not applicable.

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**Proper shipping name:** Not applicable.

**Class/Division:** Not applicable.

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

**Hazchem Code:** Not applicable

**IERG:** Not applicable.

### International Air Transport Association (IATA) - Air Transport

**UN No.:** Not applicable.

**Proper shipping name:** Not applicable.

**Class/Division:** Not applicable.

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

### International Maritime Dangerous Goods Code (IMDG)- Marine Transport

**UN No.:** Not applicable.

**Proper shipping name:** Not applicable.

**Class/Division:** Not applicable.

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

**Marine Pollutant:** Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Australian Inventory Status:

This product is regulated by the Therapeutics Goods Administration and is exempt from compliance with the Industrial Chemicals (Notification and Assessment) Act 1989 as amended.

## SECTION 16: Other information

#### Revision information:

Complete document review.

**DISCLAIMER:** The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Safety Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

Greenguard ® is a United States based program. The 'Low VOC' reference related to United States Federal and State regulations exemptions for some solvents.

**3M Australia SDSs are available at [www.3m.com.au](http://www.3m.com.au)**