



## 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)

### SECTION 1: Identification

#### 1.1. Product identifier

3009/ 7543 3M™ ESPE™ ADPER™ SCOTCHBOND™ MULTI-PURPOSE ADHESIVE

#### Product Identification Numbers

70-2010-1611-3

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

##### Recommended use

Dental Product, Adhesive

For use only by dental professionals.

##### 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.

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

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Hazardous Chemicals (Safe Work Australia, December 2011). This information may be different from the actual product label.

### Signal word

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. Harmful to aquatic life.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient   | CAS Nbr   | % by Weight |
|--|-----------|-------------|
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | 1565-94-2 | 60 - 70     |
| 2-hydroxyethyl methacrylate  | 868-77-9  | 30 - 40     |
| Triphenylantimony  | 603-36-1  | < 0.5       |

## SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### **Inhalation**

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

##### **Skin contact**

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

##### **Eye contact**

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

##### **If swallowed**

Rinse mouth. Do not induce vomiting. Get immediate medical attention.

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

See Section 11.1. Information on toxicological effects.

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

Not applicable

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

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

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

None inherent in this product.

#### Hazardous Decomposition or By-Products

##### Substance

Carbon monoxide.  
Carbon dioxide.  
Irritant vapours or gases.

##### Condition

During combustion.  
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

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

#### 6.2. Environmental precautions

Avoid release to the environment.

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

Contain spill. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with detergent and water. Seal the container. Dispose of collected material as soon as possible.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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

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

No special storage requirements.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

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

|  |  |
|--|--|
| <b>Physical state</b>                                    | Liquid.  |
| <b>Specific Physical Form:</b>                           | Viscous Liquid                                   |
| <b>Appearance/Odour</b>                                  | Slight acrylate odour, Clear to slightly yellow. |
| <b>Odour threshold</b>                                   | <i>No data available.</i>                        |
| <b>pH</b>  | <i>No data available.</i>                        |
| <b>Melting point/Freezing point</b>                      | <i>Not applicable.</i>                           |
| <b>Boiling point/Initial boiling point/Boiling range</b> | $\geq 35$ °C                                     |
| <b>Flash point</b>                                       | $> 101.1$ °C [ <i>Test Method: Closed Cup</i> ]  |
| <b>Evaporation rate</b>                                  | <i>No data available.</i>                        |
| <b>Flammability (solid, gas)</b>                         | Not applicable.                                  |

|   |   |
|---|---|
| Flammable Limits(LEL)                       | <i>Not applicable.</i>                        |
| Flammable Limits(UEL)                       | <i>Not applicable.</i>                        |
| Vapour pressure                             | $\leq 110,316.1$ Pa [ <i>Ref Std: AIR=1</i> ] |
| Vapour density                              | <i>No data available.</i>                     |
| Density                                     | 1.15 g/ml                                     |
| Relative density                            | 1.15 [ <i>Ref Std: WATER=1</i> ]              |
| Water solubility                            | Moderate                                      |
| Solubility- non-water                       | <i>No data available.</i>                     |
| Partition coefficient: n-octanol/water      | <i>Not applicable.</i>                        |
| Autoignition temperature                    | <i>Not applicable.</i>                        |
| Decomposition temperature                   | <i>No data available.</i>                     |
| Viscosity                                   | 0.25 Pa-s [ <i>Test Method: Brookfield</i> ]  |
| Volatile organic compounds (VOC)            | <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 is considered to be non reactive under normal use conditions

### 10.2 Chemical stability

Stable.

### 10.3. Conditions to avoid

None known.

### 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

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**

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 |
| (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-hydroxyethyl methacrylate  | Dermal               | Rabbit                 | LD50 > 5,000 mg/kg                                   |
| 2-hydroxyethyl methacrylate  | Ingestion            | Rat                    | LD50 5,564 mg/kg                                     |
| Triphenylantimony  | Inhalation-Dust/Mist |                        | LC50 estimated to be 1 - 5 mg/l                      |
| Triphenylantimony  | Dermal               | Rat                    | LD50 > 2,000 mg/kg                                   |
| Triphenylantimony  | Ingestion            | Rat                    | LD50 82.5 mg/kg                                      |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

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

**Serious Eye Damage/Irritation**

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

**Skin Sensitisation**

| Name   | Species          | Value       |
|--|------------------|-------------|
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | Guinea pig       | Sensitising |
| 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  |
|--|----------|--|
| (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-hydroxyethyl methacrylate  | In vivo  | Not mutagenic  |
| 2-hydroxyethyl methacrylate  | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

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

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name   | Route     | Value                            | Species | Test result           | Exposure Duration              |
|--|-----------|----------------------------------|---------|-----------------------|--------------------------------|
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | Ingestion | Not toxic to female reproduction | Mouse   | NOAEL 0.8 mg/kg/day   | prematuring & during gestation |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | Ingestion | Not toxic to male reproduction   | Mouse   | NOAEL 0.8 mg/kg/day   | prematuring & during gestation |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | Ingestion | Not toxic to development         | Mouse   | NOAEL 0.8 mg/kg/day   | prematuring & during gestation |
| 2-hydroxyethyl methacrylate  | Ingestion | Not toxic to female reproduction | Rat     | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| 2-hydroxyethyl methacrylate  | Ingestion | Not toxic to male reproduction   | Rat     | NOAEL 1,000 mg/kg/day | 49 days                        |
| 2-hydroxyethyl methacrylate  | Ingestion | Not toxic to development         | Rat     | NOAEL 1,000 mg/kg/day | prematuring & during gestation |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

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

**Specific Target Organ Toxicity - repeated exposure**

| Name   | Route     | Target Organ(s)   | Value                 | Species | Test result         | Exposure Duration              |
|--|-----------|---|-----------------------|---------|---------------------|--------------------------------|
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] | Ingestion | endocrine system   liver   nervous system   kidney and/or bladder | All data are negative | Mouse   | NOAEL 0.8 mg/kg/day | prematuring & during gestation |

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|                 |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|
| bismethacrylate |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|

**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:**

GHS Acute 3: Harmful to aquatic life.

**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 |
|--|------------|----------------|---|----------|---------------|-------------|
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | 1565-94-2  | Fathead minnow | Estimated   | 96 hours | LC50          | 1.1 mg/l    |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | 1565-94-2  |                | Data not available or insufficient for classification |          |               |             |
| Triphenylantimony  | 603-36-1   |                | 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   | Water flea     | Experimental  | 48 hours | EC50          | 380 mg/l    |



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|                             |          |             |              |          |      |           |
|-----------------------------|----------|-------------|--------------|----------|------|-----------|
| 2-hydroxyethyl methacrylate | 868-77-9 | Green Algae | Experimental | 72 hours | EC50 | 345 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 |

**12.2. Persistence and degradability**

| Material   | CAS Number | Test type                   | Duration | Study Type                    | Test result       | Protocol                  |
|--|------------|-----------------------------|----------|-------------------------------|-------------------|---------------------------|
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | 1565-94-2  | Estimated Biodegradation    | 28 days  | BOD                           | 33 % weight       | OECD 301C - MITI test (I) |
| Triphenylantimony  | 603-36-1   | Modeled Photolysis          |          | Photolytic half-life (in air) | 5.4 days (t 1/2)  | Other methods             |
| 2-hydroxyethyl methacrylate  | 868-77-9   | Estimated Photolysis        |          | Photolytic half-life (in air) | 1.3 days (t 1/2)  | Other methods             |
| 2-hydroxyethyl methacrylate  | 868-77-9   | Experimental Hydrolysis     |          | Hydrolytic half-life          | 10.9 days (t 1/2) | Other methods             |
| 2-hydroxyethyl methacrylate  | 868-77-9   | Experimental Biodegradation | 14 days  | BOD                           | 95 % weight       | OECD 301C - MITI test (I) |

**12.3 : Bioaccumulative potential**

| Material   | CAS Number | Test type   | Duration | Study Type | Test result | Protocol      |
|--|------------|---|----------|------------|-------------|---------------|
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | 1565-94-2  | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A           |
| Triphenylantimony  | 603-36-1   | 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    | 0.47        | Other methods |

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

## 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.

**Poison Schedule:** This product is intended for Industrial or Professional Use only and therefore is not packaged and labelled in accordance with the requirements of the Standard for the Uniform Scheduling of Medicines and Poisons.

## 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)**