



Safety Data Sheet

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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

4910/ 4911/ 5914/ 5915 3M™ ESPE™ FILTEK™ SUPREME XTE UNIVERSAL RESTORATIVE

Product Identification Numbers

| | | | | |
|----------------|----------------|----------------|----------------|----------------|
| 70-2010-7628-1 | 70-2010-7629-9 | 70-2010-7630-7 | 70-2010-7631-5 | 70-2010-7632-3 |
| 70-2010-7633-1 | 70-2010-7634-9 | 70-2010-7635-6 | 70-2010-7636-4 | 70-2010-7637-2 |
| 70-2010-7638-0 | 70-2010-7640-6 | 70-2010-7641-4 | 70-2010-7642-2 | 70-2010-7643-0 |
| 70-2010-7644-8 | 70-2010-7645-5 | 70-2010-7646-3 | 70-2010-7647-1 | 70-2010-7648-9 |
| 70-2010-7649-7 | 70-2010-7650-5 | 70-2010-7651-3 | 70-2010-7652-1 | 70-2010-7653-9 |
| 70-2010-7654-7 | 70-2010-7655-4 | 70-2010-7656-2 | 70-2010-7657-0 | 70-2010-7658-8 |
| 70-2010-7659-6 | 70-2010-7660-4 | 70-2010-7661-2 | 70-2010-7662-0 | 70-2010-7663-8 |
| 70-2010-7668-7 | 70-2010-7669-5 | 70-2010-7670-3 | 70-2010-7671-1 | 70-2010-7672-9 |
| 70-2010-7673-7 | 70-2010-7674-5 | 70-2010-7675-2 | 70-2010-7676-0 | 70-2010-7677-8 |
| 70-2010-7678-6 | 70-2010-7679-4 | 70-2010-7680-2 | 70-2010-7681-0 | 70-2010-7682-8 |
| 70-2010-7683-6 | 70-2010-7684-4 | 70-2010-7685-1 | 70-2010-7686-9 | 70-2010-7687-7 |
| 70-2010-7688-5 | 70-2010-7689-3 | 70-2010-7690-1 | 70-2010-7691-9 | 70-2010-7692-7 |
| 70-2010-7693-5 | 70-2010-7694-3 | 70-2010-7695-0 | 70-2010-7696-8 | 70-2010-7697-6 |
| 70-2010-7698-4 | 70-2010-7699-2 | 70-2010-7700-8 | 70-2010-7701-6 | 70-2010-7702-4 |
| 70-2010-7703-2 | | | | |

1.2. Recommended use and restrictions on use

Recommended use

Dental Product, Restorative

For Industrial or 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.

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

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.

SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | CAS Nbr | % by Weight |
|--|-------------|-------------|
| Silane treated ceramic | 444758-98-9 | 60 - 80 |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | 248596-91-0 | 1 - 10 |
| Diurethane dimethacrylate | 72869-86-4 | 1 - 10 |
| Bisphenol A polyethylene glycol diether dimethacrylate | 41637-38-1 | 1 - 10 |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | 1565-94-2 | 1 - 10 |
| Silane treated zirconia | Unknown | 1 - 10 |
| Polyethylene glycol dimethacrylate | 25852-47-5 | < 5 |
| 2,2'-ethylenedioxydiethyl dimethacrylate | 109-16-0 | < 5 |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | < 1 |

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-ProductsSubstanceCondition

Carbon monoxide.
Carbon dioxide.

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.

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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid breathing of dust created by cutting, sanding, grinding or machining. 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. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from oxidising 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 | CAS Nbr | Agency | Limit type | Additional comments |
|----------------------------|----------|----------------|--|--------------------------------|
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | ACGIH | TWA(inhalable fraction and vapour):2 mg/m ³ | A4: Not class. as human carcin |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Australia OELs | TWA(8 hours):10 mg/m ³ | |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

Australia OELs : Australia. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CELL: Ceiling

Sen: Sensitiser

Sk: Absorption through the skin may be a significant source of exposure.

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 | Slight acrylate odour, Tooth coloured |
| 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 ³ |
| Relative density | 1.9 [Ref Std:WATER=1] |
| Water solubility | <i>No data available.</i> |
| Solubility- non-water | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | <i>Not applicable.</i> |
| Autoignition temperature | <i>No data available.</i> |
| Decomposition temperature | <i>No data available.</i> |
| Viscosity | <i>No data available.</i> |
| Molecular weight | <i>No data available.</i> |
| Volatile organic compounds (VOC) | <i>Not applicable.</i> |
| VOC less H ₂ O & exempt solvents | <i>Not applicable.</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

Heat.

10.4. Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products**Substance****Condition**

None known.

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

Contact with the eyes during product use is not expected to result in significant irritation.

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 ATE _{2,000} - 5,000 mg/kg |

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| | | | |
|--|-----------|------------------------|--|
| Silane treated ceramic | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Silane treated ceramic | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Ingestion | | LD50 estimated to be > 5,000 mg/kg |
| Bisphenol A polyethylene glycol diether dimethacrylate | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| Diurethane dimethacrylate | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| Bisphenol A polyethylene glycol diether dimethacrylate | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Diurethane dimethacrylate | Ingestion | Rat | LD50 > 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 |
| Polyethylene glycol dimethacrylate | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Polyethylene glycol dimethacrylate | Ingestion | Rat | LD50 > 5,000 mg/kg |
| 2,2'-ethylenedioxydiethyl dimethacrylate | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| 2,2'-ethylenedioxydiethyl dimethacrylate | Ingestion | Rat | LD50 10,837 mg/kg |
| 2,6-Di-tert-butyl-p-cresol | Dermal | Rat | LD50 > 2,000 mg/kg |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | Rat | LD50 > 2,930 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--|------------------------|---------------------------|
| Silane treated ceramic | similar compounds | No significant irritation |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Professional judgement | No significant irritation |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | Not available | Minimal irritation |
| 2,2'-ethylenedioxydiethyl dimethacrylate | Guinea pig | Mild irritant |
| 2,6-Di-tert-butyl-p-cresol | Human and animal | Minimal irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|------------------------|---------------------------|
| Silane treated ceramic | similar compounds | Mild irritant |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Professional judgement | No significant irritation |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | Not available | Moderate irritant |
| 2,2'-ethylenedioxydiethyl dimethacrylate | Professional judgement | Moderate irritant |
| 2,6-Di-tert-butyl-p-cresol | Rabbit | Mild irritant |

Skin Sensitisation

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

| | | |
|--|-------------------|--|
| Silane treated ceramic | similar compounds | Some positive data exist, but the data are not sufficient for classification |
| Bisphenol A polyethylene glycol diether dimethacrylate | Guinea pig | Not sensitizing |
| Diurethane dimethacrylate | Guinea pig | Sensitising |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | Guinea pig | Sensitising |
| 2,2'-ethylenedioxydiethyl dimethacrylate | Human and animal | Sensitising |
| 2,6-Di-tert-butyl-p-cresol | Human | Some positive data exist, but the data are not sufficient for classification |

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 |
|--|----------|--|
| Bisphenol A polyethylene glycol diether dimethacrylate | In Vitro | Not mutagenic |
| (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 |
| 2,2'-ethylenedioxydiethyl dimethacrylate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 2,6-Di-tert-butyl-p-cresol | In Vitro | Not mutagenic |
| 2,6-Di-tert-butyl-p-cresol | In vivo | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|--|------------|-------------------------|--|
| Silane treated ceramic | Inhalation | similar compounds | Some positive data exist, but the data are not sufficient for classification |
| 2,2'-ethylenedioxydiethyl dimethacrylate | Dermal | Mouse | Not carcinogenic |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|--|-----------|----------------------------------|---------|---------------------|--------------------------------|
| (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 |
| 2,2'-ethylenedioxydiethyl | Ingestion | Not toxic to female reproduction | Mouse | NOAEL 1 mg/kg/day | 1 generation |

| | | | | | |
|--|-----------|--|-------|---------------------|--------------|
| dimethacrylate | | | | | |
| 2,2'-ethylenedioxydiethyl dimethacrylate | Ingestion | Not toxic to male reproduction | Mouse | NOAEL 1 mg/kg/day | 1 generation |
| 2,2'-ethylenedioxydiethyl dimethacrylate | Ingestion | Not toxic to development | Mouse | NOAEL 1 mg/kg/day | 1 generation |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | Not toxic to female reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | Not toxic to male reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | Some positive developmental data exist, but the data are not sufficient for classification | Rat | NOAEL 100 mg/kg/day | 2 generation |

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 |
|---|------------|---|--|-------------------|---------------------|--------------------------------|
| Silane treated ceramic | Inhalation | pulmonary fibrosis | Some positive data exist, but the data are not sufficient for classification | similar compounds | NOAEL Not available | |
| (1-methylethylidene)bis[4,1-phenyleneoxy (2-hydroxy-3,1-propanediyl)] bismethacrylate | Ingestion | endocrine system liver nervous system kidney and/or bladder | All data are negative | Mouse | NOAEL 0.8 mg/kg/day | prematuring & during gestation |
| 2,2'-ethylenedioxy diethyl dimethacrylate | Dermal | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL 833 mg/kg/day | 78 weeks |
| 2,2'-ethylenedioxy diethyl dimethacrylate | Dermal | blood | All data are negative | Mouse | NOAEL 833 mg/kg/day | 78 weeks |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 250 mg/kg/day | 28 days |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 500 mg/kg/day | 2 generation |
| 2,6-Di-tert- | Ingestion | blood | Some positive | Rat | LOAEL 420 | 40 days |

| | | | | | | |
|----------------------------|-----------|------------------|--|-------|-----------------------|--------------|
| butyl-p-cresol | | | data exist, but the data are not sufficient for classification | | mg/kg/day | |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | endocrine system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 25 mg/kg/day | 2 generation |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | heart | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL 3,480 mg/kg/day | 10 weeks |

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 |
|---|-------------|----------|---|----------|---------------|-------------|
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | | Data not available or insufficient for classification | | | |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl) propyl ester, hydrolysis products with silica | 248596-91-0 | | Data not available or insufficient for classification | | | |
| 2,2'- | 109-16-0 | | Data not | | | |

| | | | | | | |
|--|-------------|----------------|---|----------|------|----------|
| ethylenedioxydiethyl dimethacrylate | | | available or insufficient for classification | | | |
| (1-methylethylene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | 1565-94-2 | | Data not available or insufficient for classification | | | |
| Silane treated ceramic | 444758-98-9 | | Data not available or insufficient for classification | | | |
| Bisphenol A polyethylene glycol diether dimethacrylate | 41637-38-1 | | Data not available or insufficient for classification | | | |
| Diurethane dimethacrylate | 72869-86-4 | Fathead minnow | Estimated | 96 hours | LC50 | 1.4 mg/l |
| Polyethylene glycol dimethacrylate | 25852-47-5 | | Data not available or insufficient for classification | | | |

12.2. Persistence and degradability

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|---|-------------|---|----------|------------|-------------|---------------------------|
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl) propyl ester, hydrolysis products with silica | 248596-91-0 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Silane treated ceramic | 444758-98-9 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Polyethylene glycol dimethacrylate | 25852-47-5 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Diurethane dimethacrylate | 72869-86-4 | Estimated Biodegradation | 28 days | BOD | 52 % weight | OECD 301C - MITI test (I) |
| Bisphenol A polyethylene glycol diether dimethacrylate | 41637-38-1 | Calculated Biodegradation | 28 days | BOD | 38 % weight | OECD 301C - MITI test (I) |
| 2,2'-ethylenedioxydiethyl dimethacrylate | 109-16-0 | Estimated Biodegradation | 28 days | BOD | 60 % weight | Other methods |
| (1- | 1565-94-2 | Estimated | 28 days | BOD | 33 % weight | OECD 301C - MITI |

| | | | | | | |
|---|----------|-----------------------------|---------|-----|--------------|---------------------------|
| methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | | Biodegradation | | | | test (I) |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Experimental Biodegradation | 28 days | BOD | 4.5 % weight | OECD 301C - MITI test (I) |

12.3 : Bioaccumulative potential

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|---|-------------|---|----------|------------------------|-------------|--|
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl) propyl ester, hydrolysis products with silica | 248596-91-0 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Polyethylene glycol dimethacrylate | 25852-47-5 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Silane treated ceramic | 444758-98-9 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| (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 |
| Diurethane dimethacrylate | 72869-86-4 | Estimated BCF - Other | | Bioaccumulation factor | 5 | Estimated: Bioconcentration factor |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Experimental BCF-Carp | 56 days | Bioaccumulation factor | 1276 | OECD 305E - Bioaccumulation flow-through fish test |
| Bisphenol A polyethylene glycol diether dimethacrylate | 41637-38-1 | Calculated Bioconcentration | | Bioaccumulation factor | 6.7 | Estimated: Bioconcentration factor |
| 2,2'-ethylenedioxydiethyl dimethacrylate | 109-16-0 | Experimental Bioaccumulation | | Log Kow | 1.88 | 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 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.

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