

# Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

# **SECTION 1: Identification**

## 1.1. Product identifier

3M<sup>TM</sup> RelyX<sup>TM</sup> Veneer Cement Refills

### **Product Identification Numbers**

70-2010-3186-4

## 1.2. Recommended use and restrictions on use

### Recommended use

Dental Product. Veneer cement

## Restrictions on use

For use by dental professionals only.

## 1.3. Supplier's details

Address: 3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland

**Telephone:** (09) 477 4040

E Mail: innovation@nz.mmm.com

Website: 3m.co.nz

### 1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

# **SECTION 2: Hazard identification**

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.

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

## 2.1. Classification of the substance or mixture

Eye irritation Category 2 Skin sensitisation Category 1 Reproductive toxicity Category 1

### 2.2. Label elements

SIGNAL WORD

## Danger

## **Symbols:**

Exclamation mark | Health Hazard |







### **HAZARD STATEMENTS:**

H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H360 May damage fertility or the unborn child.

### PRECAUTIONARY STATEMENTS

### Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280E Wear protective gloves.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 IF eye irritation persists: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with applicable

local/regional/national/international regulations.

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

Ingredient	CAS Nbr	% by Weight
Silane Treated Ceramic	444758-98-9	55 - 65
(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)]	1565-94-2	10 - 20
bismethacrylate		
Triethylene Glycol Dimethacrylate (TEGDMA)	109-16-0	10 - 20
Silane Treated Silica	248596-91-0	1 - 10
Reacted Polycaprolactone Polymer	None	1 - 10
Titanium dioxide	13463-67-7	< 1
Diphenyliodonium Hexafluorophosphate	58109-40-3	< 0.5
N,N-Dimethylbenzocaine	10287-53-3	< 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.

### **Eve contact**

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

A product risk assessment is recommended to determine if eye wash facilities may be required when using this product in the workplace.

## If swallowed

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

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

The most important symptoms and effects based on the CLP classification include:

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

Not applicable

# **SECTION 5: Fire-fighting measures**

### 5.1. Suitable extinguishing media

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

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

None inherent in this product.

## **Hazardous Decomposition or By-Products**

Substance
Carbon monoxide.
Carbon dioxide.

### Condition

During combustion.

During combustion.

## 5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

**5.4. Hazchem code:** Not applicable.

## **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

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**

Refer to Section 15 - Controls for more information

## 7.1. Precautions for safe handling

A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. Acrylates may penetrate commonly-used gloves. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not get in eyes. Use personal protective equipment (eg. gloves, respirators...) as required.

## 7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

## 7.3. Certified handler

Not required

# **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
Titanium dioxide	13463-67-7	ACGIH	TWA(Respirable nanoscale	A3: Confirmed animal
			particles):0.2	carcinogen.
			mg/m3;TWA(Respirable	_
			finescale particles):2.5 mg/m3	
Titanium dioxide	13463-67-7	New Zealand	TWA(8 hours):10 mg/m3	

WES

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines New Zealand WES: New Zealand Workplace Exposure Standards.

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit ppm: parts per million

mg/m<sup>3</sup>: milligrams per cubic metre

CEIL: Ceiling

## 8.2. Exposure controls

## 8.2.1. Engineering controls

Use in a well-ventilated area.

## 8.2.2. Personal protective equipment (PPE)

## Eye/face protection

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

Safety glasses with side shields.

Refer AS/NZS 1336 - Recommended practices for occupational eye protection and for performance specifications AS/NZS 1337, Parts 1 - 6 - Personal eye-protection.

## 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	
Colour	White	
Odour	Characteristic Odour	
Odour threshold	No data available.	
pH	No data available.	
Melting point/Freezing point	No data available.	
Boiling point/Initial boiling point/Boiling range	Not applicable.	
Flash point	No flash point	
Evaporation rate	Not applicable.	
Flammability (solid, gas)	Not classified	
Flammable Limits(LEL)	Not applicable.	
Flammable Limits(UEL)	Not applicable.	
Vapour pressure	Not applicable.	
Vapor Density and/or Relative Vapor Density	Not applicable.	
Density	1.102 g/cm3	
Relative density	1.102 [Ref Std:WATER=1]	
Water solubility	Negligible	
Solubility- non-water	No data available.	
Partition coefficient: n-octanol/water	Not applicable.	
Autoignition temperature	Not applicable.	
Decomposition temperature	No data available.	
Viscosity/Kinematic Viscosity	Not applicable.	
Volatile organic compounds (VOC)	Not applicable.	
Percent volatile	Not applicable.	
VOC less H2O & exempt solvents	Not applicable.	
Molecular weight	No data available.	

# **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

This material is considered to be non reactive under normal use conditions

## 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

None known.

## 10.5 Incompatible materials

None known.

## 10.6 Hazardous decomposition products

## **Substance**

**Condition** 

None known.

Refer to Section 5.2 for hazardous decomposition products during combustion.

# **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for 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

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

## Skin contact

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

### Eye contact

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

### Ingestion

May be harmful if swallowed.

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

## **Additional Health Effects:**

## Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

## Carcinogenicity:

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

Contains a chemical or chemicals which can cause cancer.

## **Toxicological Data**

# 3MTM RelyXTM Veneer Cement Refills

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

**Acute Toxicity** 

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >2,000 - =5,000 mg/kg
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
Triethylene Glycol Dimethacrylate (TEGDMA)	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
Triethylene Glycol Dimethacrylate (TEGDMA)	Ingestion	Rat	LD50 10,837 mg/kg
(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate	Ingestion	Rat	LD50 > 11,700 mg/kg
Silane Treated Silica	Dermal		LD50 estimated to be > 5,000 mg/kg
Silane Treated Silica	Ingestion		LD50 estimated to be > 5,000 mg/kg
Reacted Polycaprolactone Polymer	Dermal	Professio nal judgeme nt	LD50 estimated to be 2,000 - 5,000 mg/kg
Reacted Polycaprolactone Polymer	Ingestion	similar compoun ds	LD50 estimated to be 2,000 - 5,000 mg/kg
Titanium dioxide	Dermal	Rabbit	LD50 > 10,000 mg/kg
Titanium dioxide	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 6.82 mg/l
Titanium dioxide	Ingestion	Rat	LD50 > 10,000 mg/kg
N,N-Dimethylbenzocaine	Dermal	Rat	LD50 > 2,000 mg/kg
N,N-Dimethylbenzocaine	Ingestion	Rat	LD50 > 2,000 mg/kg
Diphenyliodonium Hexafluorophosphate	Ingestion	Rat	LD50 32 mg/kg

ATE = acute toxicity estimate

## Skin Corrosion/Irritation

Name	Species	Value
Silane Treated Ceramic	similar	No significant irritation
	compoun	
	ds	
Triethylene Glycol Dimethacrylate (TEGDMA)	Guinea	Mild irritant
	pig	
(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)]	Rabbit	No significant irritation
bismethacrylate		
Silane Treated Silica	Professio	No significant irritation
	nal	
	judgemen	
	t	
Titanium dioxide	Rabbit	No significant irritation
N,N-Dimethylbenzocaine	Rabbit	No significant irritation
Diphenyliodonium Hexafluorophosphate	Rabbit	No significant irritation

**Serious Eye Damage/Irritation** 

Name	Species	Value
Silane Treated Ceramic	similar	Mild irritant

# 3M<sup>TM</sup> RelyX<sup>TM</sup> Veneer Cement Refills

	compoun ds	
Triethylene Glycol Dimethacrylate (TEGDMA)	Professio	Moderate irritant
	nal	
	judgemen t	
(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)]	In vitro	No significant irritation
bismethacrylate	data	
Silane Treated Silica	Professio	No significant irritation
	nal	
	judgemen	
	t	
Titanium dioxide	Rabbit	No significant irritation
N,N-Dimethylbenzocaine	Rabbit	No significant irritation
Diphenyliodonium Hexafluorophosphate	Rabbit	Mild irritant

## **Sensitisation:**

## **Skin Sensitisation**

Name	Species	Value
Silane Treated Ceramic	similar	Not classified
	compoun	
	ds	
Triethylene Glycol Dimethacrylate (TEGDMA)	Human	Sensitising
	and	
	animal	
(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)]	Mouse	Not classified
bismethacrylate		
Titanium dioxide	Human	Not classified
	and	
	animal	
N,N-Dimethylbenzocaine		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
Triethylene Glycol Dimethacrylate (TEGDMA)	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	Not mutagenic
Titanium dioxide	In Vitro	Not mutagenic
Titanium dioxide	In vivo	Not mutagenic
N,N-Dimethylbenzocaine	In vivo	Not mutagenic
N,N-Dimethylbenzocaine	In Vitro	Some positive data exist, but the data are not sufficient for classification
Diphenyliodonium Hexafluorophosphate	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Caremogenicity			
Name	Route	Species	Value
Silane Treated Ceramic	Inhalation	similar compoun ds	Some positive data exist, but the data are not sufficient for classification
Triethylene Glycol Dimethacrylate (TEGDMA)	Dermal	Mouse	Not carcinogenic
Titanium dioxide	Ingestion	Multiple animal species	Not carcinogenic
Titanium dioxide	Inhalation	Rat	Carcinogenic.

\_\_\_\_\_

# **Reproductive Toxicity**

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Triethylene Glycol Dimethacrylate (TEGDMA)	Ingestion	Not classified for female reproduction	Mouse	NOAEL 1 mg/kg/day	1 generation
Triethylene Glycol Dimethacrylate (TEGDMA)	Ingestion	Not classified for male reproduction	Mouse	NOAEL 1 mg/kg/day	1 generation
Triethylene Glycol Dimethacrylate (TEGDMA)	Ingestion	Not classified for development	Mouse	NOAEL 1 mg/kg/day	1 generation
(1-methylethylidene)bis[4,1- phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during gestation
N,N-Dimethylbenzocaine	Ingestion	Not classified for female reproduction	Rat	NOAEL 600 mg/kg/day	premating into lactation
N,N-Dimethylbenzocaine	Ingestion	Not classified for development	Rat	NOAEL 50 mg/kg/day	premating into lactation
N,N-Dimethylbenzocaine	Ingestion	Toxic to male reproduction	Rat	NOAEL 50 mg/kg/day	53 days

# Target Organ(s)

**Specific Target Organ Toxicity - single exposure** 

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Diphenyliodonium Hexafluorophosphate	Inhalation	respiratory irritation	Not classified	Not available	Irritation Equivocal	

**Specific Target Organ Toxicity - repeated exposure** 

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Silane Treated Ceramic	Inhalation	pulmonary fibrosis	Not classified	similar compoun ds	NOAEL Not available	
Triethylene Glycol Dimethacrylate (TEGDMA)	Dermal	kidney and/or bladder   blood	Not classified	Mouse	NOAEL 833 mg/kg/day	78 weeks
(1- methylethylidene)bis[4,1- phenyleneoxy(2-hydroxy- 3,1-propanediyl)] bismethacrylate	Ingestion	endocrine system   hematopoietic system   liver   heart   skin   gastrointestinal tract   bone, teeth, nails, and/or hair   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Titanium dioxide	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.01 mg/l	2 years
Titanium dioxide	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
N,N-Dimethylbenzocaine	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 74 mg/kg/day	28 days
N,N-Dimethylbenzocaine	Ingestion	liver   heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   immune system	Not classified	Rat	NOAEL 900 mg/kg/day	28 days

muscles   nervous system   eyes   kidney and/or	
bladder   respiratory	
system   vascular	
system	

### **Aspiration Hazard**

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

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

# **SECTION 12: Ecological information**

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

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Silane Treated	444758-98-9	N/A	Data not	N/A	N/A	N/A
Ceramic			available or			
			insufficient for			
			classification			
(1-	1565-94-2	Common Carp	Analogous	96 hours	No tox obs at	>100 mg/l
methylethylide			Compound		lmt of water sol	
ne)bis[4,1-						
phenyleneoxy(						
2-hydroxy-3,1-						
propanediyl)]						
bismethacrylate						
(1-	1565-94-2	Green algae	Endpoint not	96 hours	EC50	>100 mg/l
methylethylide			reached			
ne)bis[4,1-						
phenyleneoxy(						
2-hydroxy-3,1-						
propanediyl)]						
bismethacrylate						
(1-	1565-94-2	Green algae	Experimental	96 hours	EC10	1.1 mg/l
methylethylide						
ne)bis[4,1-						
phenyleneoxy(						
2-hydroxy-3,1-						
propanediyl)]						
bismethacrylate						
Triethylene	109-16-0	Green algae	Experimental	72 hours	ErC50	>100 mg/l
Glycol						
Dimethacrylate						
(TEGDMA)						
Triethylene	109-16-0	Zebra Fish	Experimental	96 hours	LC50	16.4 mg/l

Glycol Dimethacrylate						
(TEGDMA)						
Triethylene Glycol Dimethacrylate (TEGDMA)	109-16-0	Green algae	Experimental	72 hours	NOEC	18.6 mg/l
Triethylene Glycol Dimethacrylate (TEGDMA)	109-16-0	Water flea	Experimental	21 days	NOEC	32 mg/l
Reacted Polycaprolacto ne Polymer	None	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Silane Treated Silica	248596-91-0	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Titanium dioxide	13463-67-7	Activated sludge	Experimental	3 hours	NOEC	>=1,000 mg/l
Titanium	13463-67-7	Diatom	Experimental	72 hours	EC50	>10,000 mg/l
dioxide	13 103 07 7	Biatom	Experimental	/2 Hours		10,000 mg/1
Titanium dioxide	13463-67-7	Fathead minnow	Experimental	96 hours	LC50	>100 mg/l
Titanium dioxide	13463-67-7	Water flea	Experimental	48 hours	EC50	>100 mg/l
Titanium dioxide	13463-67-7	Diatom	Experimental	72 hours	NOEC	5,600 mg/l
Diphenyliodoni um Hexafluoropho sphate	58109-40-3	Water flea	Experimental	48 hours	EC50	9.5 mg/l
N,N- Dimethylbenzo caine	10287-53-3	Activated sludge	Experimental	3 hours	EC50	>1,000 mg/l
N,N- Dimethylbenzo caine	10287-53-3	Green algae	Experimental	72 hours	EL50	2.8 mg/l
N,N- Dimethylbenzo caine	10287-53-3	Rainbow trout	Experimental	96 hours	LC50	1.9 mg/l
N,N- Dimethylbenzo caine	10287-53-3	Water flea	Experimental	48 hours	EC50	4.5 mg/l
N,N- Dimethylbenzo caine	10287-53-3	Green algae	Experimental	72 hours	ErC10	0.71 mg/l

# 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Silane Treated	444758-98-9	Data not	N/A	N/A	N/A	N/A
Ceramic		availbl-				
		insufficient				

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(1-	1565-94-2	Experimental	28 days	BOD	21 %BOD/ThO	similar to OECD 301F
methylethylide		Biodegradation			D	
ne)bis[4,1-						
phenyleneoxy(						
2-hydroxy-3,1-						
propanediyl)]						
bismethacrylate						
(1-	1565-94-2	Experimental		Hydrolytic	29 days (t 1/2)	
methylethylide		Hydrolysis		half-life (pH 7)		
ne)bis[4,1-						
phenyleneoxy(						
2-hydroxy-3,1-						
propanediyl)]						
bismethacrylate						
Triethylene	109-16-0	Experimental	28 days	CO2 evolution	85 %CO2	OECD 301B - Modified
Glycol		Biodegradation			evolution/THC	sturm or CO2
Dimethacrylate					O2 evolution	
(TEGDMA)						
Reacted	None	Data not	N/A	N/A	N/A	N/A
Polycaprolacto		availbl-				
ne Polymer		insufficient				
Silane Treated	248596-91-0	Data not	N/A	N/A	N/A	N/A
Silica		availbl-				
		insufficient				
Titanium	13463-67-7	Data not	N/A	N/A	N/A	N/A
dioxide		availbl-				
		insufficient				
Diphenyliodoni	58109-40-3	Data not	N/A	N/A	N/A	N/A
um		availbl-				
Hexafluoropho		insufficient				
sphate						
N,N-	10287-53-3	Experimental	28 days	CO2 evolution	40 %CO2	OECD 301B - Modified
Dimethylbenzo		Biodegradation			evolution/THC	sturm or CO2
caine					O2 evolution	
N,N-	10287-53-3	Experimental		Hydrolytic	>1 years (t 1/2)	OECD 111 Hydrolysis
Dimethylbenzo		Hydrolysis		half-life (pH 7)		func of pH
caine						

# 12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Silane Treated	444758-98-9	Data not	N/A	N/A	N/A	N/A
Ceramic		available or				
		insufficient for				
		classification				
(1-	1565-94-2	Experimental		Log Kow	4.63	
methylethylide		Bioconcentrati				
ne)bis[4,1-		on				
phenyleneoxy(						
2-hydroxy-3,1-						
propanediyl)]						
bismethacrylate						
Triethylene	109-16-0	Experimental		Log Kow	2.3	EC A.8 Partition
Glycol		Bioconcentrati				Coefficient
Dimethacrylate		on				

(TEGDMA)						
Reacted	None	1	N/A	N/A	N/A	N/A
Polycaprolacto		available or				
ne Polymer		insufficient for				
		classification				
Silane Treated	248596-91-0	Data not	N/A	N/A	N/A	N/A
Silica		available or				
		insufficient for				
		classification				
Titanium	13463-67-7	Experimental	42 days	Bioaccumulatio	9.6	
dioxide		BCF - Fish		n factor		
Diphenyliodoni	58109-40-3	Data not	N/A	N/A	N/A	N/A
um		available or				
Hexafluoropho		insufficient for				
sphate		classification				
N,N-	10287-53-3	Experimental		Log Kow	3.2	OECD 117 log Kow
Dimethylbenzo		Bioconcentrati				HPLC method
caine		on				

## 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

In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

# **SECTION 14: Transport Information**

New Zealand Land Transport Rule: Dangerous Goods - 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**

HSNO Approval number HSR002558

Group standard name Dental Products (Subsidiary Hazard) Group Standard 2020

HSNO Hazard classification Refer to Section 2: Hazard identification

## NZ Inventory of Chemicals (NZIoC) Status

All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

Controls in accordance with The Health and Safety at Work Act 2015, Health and Safety at Work (Hazardous Substances) Regulations 2017 and the HSNO Act 1996, Hazardous Substances (Hazardous Property Controls) Notice 2017

Certified handler Not required
Location Compliance Certificate Not required
Hazardous atmosphere zone Not required
Fire extinguishers Not required

Emergency response plan 100 L or 100 kg (for Hazardous to the aquatic environment Category 1

substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Germ cell mutagenicity Category 1, Reproductive toxicity Category 1, Specific target organ toxicity Category 1, Serious eye damage Category 1, Hazardous to the aquatic

environment Category 4 substances)

Secondary containment 100 L or 100 kg (for Hazardous to the aquatic environment Category 1

substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Germ cell mutagenicity Category 1, Reproductive toxicity Category 1, Specific target organ toxicity Category 1, Serious eye damage Category 1, Hazardous to the aquatic

environment Category 4 substances)

Tracking Not required

Warning signage 100 L or 100 kg (for Hazardous to the aquatic environment Category 1

substances); or 1 000 L or 1 000 kg (for Serious eye damage Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Acute toxicity Category 4 or Hazardous to the aquatic environment Category 4

substances)

# **SECTION 16: Other information**

### **Revision information:**

Complete document review.

<b>Document group:</b>	16-1920-4	Version number:	5.00
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3M<sup>TM</sup> RelyX<sup>TM</sup> Veneer Cement Refills

Issue Date:	26/06/2023	Supersedes date:	08/07/2019
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## Key to abbreviations and acronyms

**GHS** refers to the Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition of 2017 **HSNO** means Hazardous Substances and New Organisms Act 1996

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