

# 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.

# **IDENTIFICATION:**

#### 1.1. Product identifier

3M<sup>™</sup> Imprint<sup>™</sup> 4 Preliminary Penta<sup>™</sup> Refill (71521)

 Product Identification
 Numbers

 70-2011-4180-4
 UU-0098-0562-1

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

#### Recommended use

Dental Product, Impression Material

**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)

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:

33-0041-5, 33-0045-6

All components in this KIT are classified as non-hazardous in accordance with the relevant criteria of the HSNO Act 1996, the Hazardous Substances (Classification) Notice 2017 and Hazardous Substances (Minimum Degrees of Hazard) Notice 2017.

# **TRANSPORT INFORMATION**

### NOT HAZARDOUS FOR TRANSPORT

### **Revision information:**

Complete document review.

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# **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>™</sup> Imprint<sup>™</sup> 4 Preliminary Penta<sup>™</sup> Catalyst

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

#### **Recommended use**

Dental Product, Impression Material

#### **Restrictions on use**

For use by dental professionals only.

#### 1.3. Supplier's details

Address:3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, AucklandTelephone:(09) 477 4040E Mail:innovation@nz.mmm.comWebsite:3m.co.nz

**1.4. Emergency telephone number** 

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

# **SECTION 2: Hazard identification**

Not 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

Not classified as hazardous.

**2.2. Label elements SIGNAL WORD** Not applicable.

**Symbols:** Not applicable.

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

Ingredient	CAS Nbr	% by Weight
Sodium aluminium silicate	37244-96-5	60 - 70
Vinyl terminated polydimethylsiloxane	68083-19-2	20 - 30
Poly(dimethylsiloxane)	63148-62-9	1 - 15
Dimethyl siloxane, reaction product with silica	67762-90-7	1 - 10
DL-Alpha-Tocopherol	10191-41-0	< 0.5

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

### Inhalation

No need for first aid is anticipated. If symptoms develop, remove the affected person to fresh air. Get medical attention.

### Skin contact

Wash with soap and water. 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

No critical symptoms or effects. 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>
Formaldehyde	During combustion.
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Irritant vapours or gases.	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. 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

Avoid prolonged or repeated skin contact. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

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

Store away from heat.

### 7.3. Certified handler

Not required

# **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.

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	Slight Odour, Characteristic Odour		
Odour threshold	No data available.		
рН	No data available.		
Melting point/Freezing point	Not applicable.		
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)	No data available.		
mmable Limits(UEL) No data available.			
Vapour pressure	No data available.		
Vapor Density and/or Relative Vapor Density         No data available.			
Density 1.5 g/cm3 - 1.7 g/cm3			
Relative density	1.5 - 1.7 [ <i>Ref Std</i> :WATER=1]		
Water solubility Negligible			
Solubility- non-water	No data available.		
artition coefficient: n-octanol/water No data available.			
Autoignition temperatureNo data available.			
<b>Decomposition temperature</b> No data available.			
Viscosity/Kinematic Viscosity No data available.			
Volatile organic compounds (VOC)     Not applicable.			
Percent volatile Not applicable.			
VOC less H2O & exempt solventsNot applicable.			

# **SECTION 10: Stability and reactivity**

# **10.1 Reactivity**

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

**10.2 Chemical stability** Stable.

**10.3 Possibility of hazardous reactions** Hazardous polymerisation will not occur.

**10.4 Conditions to avoid** Heat.

**10.5 Incompatible materials** None known.

10.6 Hazardous decomposition products <u>Substance</u>

None known.

**Condition** 

Refer to Section 5.2 for hazardous decomposition products during combustion.

# **SECTION 11: Toxicological information**

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

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

### 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
Sodium aluminium silicate	Dermal		LD50 estimated to be > 5,000 mg/kg
Sodium aluminium silicate	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Vinyl terminated polydimethylsiloxane	Dermal	Rabbit	LD50 > 15,440 mg/kg
Vinyl terminated polydimethylsiloxane	Ingestion	Rat	LD50 > 15,440 mg/kg
Poly(dimethylsiloxane)	Dermal	Rabbit	LD50 > 19,400 mg/kg
Poly(dimethylsiloxane)	Ingestion	Rat	LD50 > 17,000 mg/kg
Dimethyl siloxane, reaction product with silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Dimethyl siloxane, reaction product with silica	Inhalation-	Rat	LC50 > 0.691  mg/l
	Dust/Mist		
	(4 hours)		
Dimethyl siloxane, reaction product with silica	Ingestion	Rat	LD50 > 5,110 mg/kg
DL-Alpha-Tocopherol	Dermal	Rat	LD50 > 3,000 mg/kg
DL-Alpha-Tocopherol	Ingestion	Rat	LD50 > 4,000 mg/kg
ATE - aguta taxiaity actimate			

ATE = acute toxicity estimate

### **Skin Corrosion/Irritation**

Name	Species	Value

# 3M<sup>TM</sup> Imprint<sup>TM</sup> 4 Preliminary Penta<sup>TM</sup> Catalyst

Sodium aluminium silicate	Professio nal judgemen t	No significant irritation
Vinyl terminated polydimethylsiloxane	Rabbit	No significant irritation
Poly(dimethylsiloxane)	Rabbit	No significant irritation
Dimethyl siloxane, reaction product with silica	Rabbit	No significant irritation
DL-Alpha-Tocopherol	Rabbit	Minimal irritation

# Serious Eye Damage/Irritation

Name	Species	Value
Sodium aluminium silicate	Professio	Mild irritant
	nal	
	judgemen	
	t	
Vinyl terminated polydimethylsiloxane	Rabbit	Mild irritant
Poly(dimethylsiloxane)	Rabbit	No significant irritation
Dimethyl siloxane, reaction product with silica	Rabbit	No significant irritation
DL-Alpha-Tocopherol	Rabbit	No significant irritation

# Sensitisation:

### **Skin Sensitisation**

Name	Species	Value
Dimethyl siloxane, reaction product with silica	Human and animal	Not classified
DL-Alpha-Tocopherol	Mouse	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
Dimethyl siloxane, reaction product with silica	In Vitro	Not mutagenic
DL-Alpha-Tocopherol	In vivo	Not mutagenic

# Carcinogenicity

Name	Route	Species	Value
Dimethyl siloxane, reaction product with silica	Not	Mouse	Some positive data exist, but the data are not
	specified.		sufficient for classification

# **Reproductive Toxicity**

### **Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure
					Duration
Dimethyl siloxane, reaction product with silica	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Dimethyl siloxane, reaction product with silica	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Dimethyl siloxane, reaction product 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 - Tepeated exposure							
Name	Route	Target Organ(s)	Value	Species	Test result	Exposure	
						Duration	
Dimethyl siloxane,	Inhalation	respiratory system	Not classified	Human	NOAEL Not	occupational	
reaction product with silica		silicosis			available	exposure	

### Specific Target Organ Toxicity - repeated exposure

#### **Aspiration Hazard**

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

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

# **SECTION 12: Ecological information**

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	Туре	Exposure	Test endpoint	Test result
Sodium aluminium silicate	37244-96-5	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Vinyl terminated polydimethylsil oxane	68083-19-2	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Poly(dimethyls iloxane)	63148-62-9	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Dimethyl siloxane, reaction product with silica	67762-90-7	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
DL-Alpha- Tocopherol	10191-41-0	Bacteria	Analogous Compound	30 minutes	EC50	>927 mg/l
DL-Alpha- Tocopherol	10191-41-0	Rainbow trout	Analogous Compound	96 hours	No tox obs at lmt of water sol	>100 mg/l
DL-Alpha- Tocopherol	10191-41-0	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100 mg/l
DL-Alpha- Tocopherol	10191-41-0	Rainbow trout	Analogous Compound	28 days	NOEC	>100 mg/l
DL-Alpha- Tocopherol	10191-41-0	Green algae	Experimental	72 hours	NOEC	100 mg/l

# 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Sodium	37244-96-5	Data not	N/A	N/A	N/A	N/A
aluminium		availbl-				
silicate		insufficient				
Vinyl	68083-19-2	Data not	N/A	N/A	N/A	N/A
terminated		availbl-				
polydimethylsil		insufficient				
oxane						
Poly(dimethyls	63148-62-9	Data not	N/A	N/A	N/A	N/A
iloxane)		availbl-				
		insufficient				
Dimethyl	67762-90-7	Data not	N/A	N/A	N/A	N/A
siloxane,		availbl-				
reaction		insufficient				
product with						
silica						
DL-Alpha-	10191-41-0	1 1	28 days	CO2 evolution	20 %BOD/ThO	OECD 301F -
Tocopherol		Biodegradation			D	Manometric
						respirometry

# 12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Sodium aluminium silicate	37244-96-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Vinyl terminated polydimethylsil oxane	68083-19-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Poly(dimethyls iloxane)	63148-62-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Dimethyl siloxane, reaction product with silica	67762-90-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
DL-Alpha- Tocopherol	10191-41-0	Modeled Bioconcentrati on		Log Kow	12	Episuite™
DL-Alpha- Tocopherol	10191-41-0	Modeled BCF - Fish		Bioaccumulatio n factor	7	Catalogic™

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

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 numberNot applicableGroup standard nameNot applicableHSNO Hazard classificationRefer 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	Not required
Secondary containment	Not required
Tracking	Not required
Warning signage	Not required

# **SECTION 16: Other information**

#### **Revision information:**

Complete document review.

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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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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> Imprint<sup>TM</sup> 4 Preliminary Penta<sup>TM</sup> Base

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

#### **Recommended use**

Dental Product, Impression Material

#### **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**

Not 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

Not classified as hazardous.

**2.2. Label elements SIGNAL WORD** Not applicable.

**Symbols:** Not applicable.

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

Ingredient	CAS Nbr	% by Weight
Quartz (CAS 14808-60-7), surface modified with silsesquioxanes, methyl,	Mixture	30 - 60
ethoxy-terminated (CAS 104780-78-1)		
Poly(dimethylsiloxane)	63148-62-9	10 - 30
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	68855-54-9	1 - 20
Vinyl-polydimethyl siloxane	68083-19-2	10 - 20
Dimethyl methyl hydrogen silicone fluid	68037-59-2	1 - 10
2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis	67762-90-7	1 - 10
products with silica		
Titanium dioxide	68917-18-0	< 1

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

### Inhalation

No need for first aid is anticipated. If symptoms develop, remove the affected person to fresh air. Get medical attention.

### Skin contact

Wash with soap and water. 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

No critical symptoms or effects. 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>	
Carbon monoxide.	
Carbon dioxide.	
Irritant vapours or gases.	

<u>Condition</u> During combustion. 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

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**

Refer to Section 15 - Controls for more information

### 7.1. Precautions for safe handling

Avoid prolonged or repeated skin contact. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid 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 acids. Store away from strong bases. Store away from oxidising agents. Store away from amines.

### 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.

<b>Ingredient</b> Dust, inert or nuisance	<b>CAS Nbr</b> 68855-54-9	Agency New Zealand WES	Limit type TWA(as respirable dust)(8 hours):3 mg/m3;TWA(as inhalable dust)(8 hours):10 mg/m3	Additional comments
Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles	68855-54-9	ACGIH	TWA(inhalable particulates):10 mg/m3	)
Particles (insoluble or poorly soluble) not otherwise specified, respirable particles ACGIH : American Conference of Govern AIHA : American Industrial Hygiene Asso CMRG : Chemical Manufacturer's Recom New Zealand WES : New Zealand Workpl TWA: Time-Weighted-Average STEL: Short Term Exposure Limit ppm: parts per million	ociation mended Guideline	Hygienists	TWA(respirable particles):3 mg/m3	

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

Information on basic physical and chemical properties						
Physical state	Solid.					
Specific Physical Form:	Paste					
Colour	Pink					
Odour	Minty					
Odour threshold	No data available.					
рН	Not applicable.					
Melting point/Freezing point	Not applicable.					
Boiling point/Initial boiling point/Boiling range	Not applicable.					
Flash point	Flash point > 93 °C (200 °F)					
Evaporation rate	No data available.					
Flammability (solid, gas)	Not classified					
Flammable Limits(LEL)	Not applicable.					
Flammable Limits(UEL)	Not applicable.					
Vapour pressure	No data available.					
Vapor Density and/or Relative Vapor Density	No data available.					
Density	1.5 g/cm3 - 1.7 g/cm3					
Relative density	1.5 - 1.7 [ <i>Ref Std</i> :WATER=1]					
Water solubility	Negligible					
Solubility- non-water	No data available.					
Partition coefficient: n-octanol/water	No data available.					
Autoignition temperature	Not applicable.					
Decomposition temperature	No data available.					
Viscosity/Kinematic Viscosity	No data available.					
Volatile organic compounds (VOC)	Not applicable.					
Percent volatile	Not applicable.					
	· · · · · · · · · · · · · · · · · · ·					

VOC less H2O & exempt solvents

Not applicable.

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

# **10.2** Chemical stability

Stable.

# **10.3 Possibility of hazardous reactions**

Hazardous polymerisation will not occur.

# **10.4 Conditions to avoid**

Heat.

# **10.5 Incompatible materials** Amines.

Strong acids. Strong bases. Strong oxidising agents.

### 10.6 Hazardous decomposition products

<u>Substance</u>

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

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

### Eye contact

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

# Ingestion

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

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## Condition

# **Additional Health Effects:**

### **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

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.

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Quartz (CAS 14808-60-7), surface modified with silsesquioxanes, methyl, ethoxy-terminated (CAS 104780-78-1)	Dermal		LD50 estimated to be > 5,000 mg/kg
Quartz (CAS 14808-60-7), surface modified with silsesquioxanes, methyl, ethoxy-terminated (CAS 104780-78-1)	Ingestion		LD50 estimated to be > 5,000 mg/kg
Poly(dimethylsiloxane)	Dermal	Rabbit	LD50 > 19,400 mg/kg
Poly(dimethylsiloxane)	Ingestion	Rat	LD50 > 17,000 mg/kg
Vinyl-polydimethyl siloxane	Dermal	Rabbit	LD50 > 15,440 mg/kg
Vinyl-polydimethyl siloxane	Ingestion	Rat	LD50 > 15,440 mg/kg
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 2.7 mg/l
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Ingestion	Rat	LD50 > 2,000 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
Dimethyl methyl hydrogen silicone fluid	Dermal	Rabbit	LD50 > 2,000 mg/kg
Dimethyl methyl hydrogen silicone fluid	Ingestion	Rat	LD50 > 2,000 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

ATE = acute toxicity estimate

# **Skin Corrosion/Irritation**

Name	Species	Value
Quartz (CAS 14808-60-7), surface modified with silsesquioxanes, methyl, ethoxy-terminated (CAS 104780-78-1)		No significant irritation
Poly(dimethylsiloxane)	Rabbit	No significant irritation
Vinyl-polydimethyl siloxane	Rabbit	No significant irritation
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	In vitro data	No significant irritation
2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica	Rabbit	No significant irritation
Dimethyl methyl hydrogen silicone fluid	Rabbit	No significant irritation
Titanium dioxide	Rabbit	No significant irritation

# Serious Eye Damage/Irritation

Name	Species	Value

Poly(dimethylsiloxane)	Rabbit	No significant irritation
Vinyl-polydimethyl siloxane	Rabbit	Mild irritant
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Rabbit	Mild irritant
2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica	Rabbit	No significant irritation
Dimethyl methyl hydrogen silicone fluid	Rabbit	Mild irritant
Titanium dioxide	Rabbit	No significant irritation

# Sensitisation:

#### **Skin Sensitisation**

Name	Species	Value
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Mouse	Not classified
2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products	Human	Not classified
with silica	and	
	animal	
Dimethyl methyl hydrogen silicone fluid	Guinea	Not classified
	pig	
Titanium dioxide	Human	Not classified
	and	
	animal	

# **Respiratory Sensitisation**

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

#### Germ Cell Mutagenicity

Name		Value
Quartz (CAS 14808-60-7), surface modified with silsesquioxanes, methyl, ethoxy-terminated (CAS 104780-78-1)	In Vitro	Some positive data exist, but the data are not sufficient for classification
Quartz (CAS 14808-60-7), surface modified with silsesquioxanes, methyl, ethoxy-terminated (CAS 104780-78-1)	In vivo	Some positive data exist, but the data are not sufficient for classification
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	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
Dimethyl methyl hydrogen silicone fluid	In Vitro	Not mutagenic
Titanium dioxide	In Vitro	Not mutagenic
Titanium dioxide	In vivo	Not mutagenic

# Carcinogenicity

Name	Route	Species	Value
Quartz (CAS 14808-60-7), surface modified with silsesquioxanes,	Inhalation	Human	Carcinogenic.
methyl, ethoxy-terminated (CAS 104780-78-1)		and	
		animal	
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Inhalation	Human	Carcinogenic.
		and	
		animal	
2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester,	Not	Mouse	Some positive data exist, but the data are not
hydrolysis products with silica	specified.		sufficient for classification
Titanium dioxide	Ingestion	Multiple	Not carcinogenic
		animal	
		species	
Titanium dioxide	Inhalation	Rat	Carcinogenic.

# **Reproductive Toxicity**

# **Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration
2-Propenoic acid, 2-methyl-, 3-	Ingestion	Not classified for female reproduction	Rat	NOAEL 509	1 generation

(trimetoxysilyl)propyl ester, hydrolysis products with silica				mg/kg/day	
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.

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Quartz (CAS 14808-60-7), surface modified with silsesquioxanes, methyl, ethoxy-terminated (CAS 104780-78-1)	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Ingestion	hematopoietic system   eyes   kidney and/or bladder	Not classified	Rat	NOAEL 3,738 mg/kg/day	90 days
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
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

#### **Specific Target Organ Toxicity - repeated exposure**

#### Aspiration Hazard

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

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

# **SECTION 12: Ecological information**

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	Туре	Exposure	Test endpoint	Test result
Quartz (CAS	Mixture	N/A	Data not	N/A	N/A	N/A
14808-60-7),			available or			

		1	1	1	1	
surface			insufficient for			
modified with			classification			
silsesquioxanes						
, methyl,						
ethoxy-						
terminated						
(CAS 104780-						
78-1)						
Poly(dimethyls	63148-62-9	N/A	Data nat	N/A	N/A	N/A
	03148-02-9	IN/A	Data not	IN/A	IN/A	IN/A
iloxane)			available or			
			insufficient for			
	L		classification			
Flux calcined	68855-54-9	Green algae	Experimental	72 hours	No tox obs at	>100 mg/l
diatomaceous					lmt of water sol	
earth						
(cristobalite 1 -						
<10%)						
Flux calcined	68855-54-9	Rainbow trout	Experimental	96 hours	No tox obs at	>100 mg/l
diatomaceous			1		lmt of water sol	
earth						
(cristobalite 1 -						
<10%)						
Flux calcined	68855-54-9	Water flea	Experimental	48 hours	No tox obs at	>100 mg/l
diatomaceous	08855-54-5	water nea	Experimentai	40 110015	lmt of water sol	>100 mg/1
					line of water sor	
earth						
(cristobalite 1 -						
<10%)						
Flux calcined	68855-54-9	Green algae	Experimental	72 hours	No tox obs at	>100 mg/l
diatomaceous					lmt of water sol	
earth						
(cristobalite 1 -						
<10%)						
Flux calcined	68855-54-9	Activated	Experimental	3 hours	EC50	>1,000 mg/l
diatomaceous		sludge				
earth						
(cristobalite 1 -						
<10%)						
Vinyl-	68083-19-2	N/A	Data not	N/A	N/A	N/A
polydimethyl			available or			
siloxane			insufficient for			
SHOAdhe			classification			
Dimethyl	68037-59-2	N/A	Data not	N/A	N/A	N/A
	08037-39-2	IN/A		IN/A	IN/A	IN/A
methyl			available or			
hydrogen	1		insufficient for			
silicone fluid			classification	/ /		
2-Propenoic	67762-90-7	N/A	Data not	N/A	N/A	N/A
acid, 2-methyl-,	1		available or			
3-			insufficient for			
(trimetoxysilyl)			classification			
propyl ester,	1					
hydrolysis	1					
products with	1					
silica						
Titanium	68917-18-0	Activated	Experimental	3 hours	NOEC	>=1,000 mg/l
dioxide		sludge	r			,
aioniuc	l	Isinge	1	I	1	I

Titanium dioxide	68917-18-0	Diatom	Experimental	72 hours	EC50	>10,000 mg/l
Titanium dioxide	68917-18-0	Fathead minnow	Experimental	96 hours	LC50	>100 mg/l
Titanium dioxide	68917-18-0	Water flea	Experimental	48 hours	EC50	>100 mg/l
Titanium dioxide	68917-18-0	Diatom	Experimental	72 hours	NOEC	5,600 mg/l

# 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Quartz (CAS 14808-60-7), surface modified with silsesquioxanes , methyl, ethoxy- terminated (CAS 104780- 78-1)	Mixture	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Poly(dimethyls iloxane)	63148-62-9	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	68855-54-9	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Vinyl- polydimethyl siloxane	68083-19-2	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Dimethyl methyl hydrogen silicone fluid	68037-59-2	Data not availbl- insufficient	N/A	N/A	N/A	N/A
2-Propenoic acid, 2-methyl-, 3- (trimetoxysilyl) propyl ester, hydrolysis products with silica		Data not availbl- insufficient	N/A	N/A	N/A	N/A
Titanium dioxide	68917-18-0	Data not availbl- insufficient	N/A	N/A	N/A	N/A

# 12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Quartz (CAS	Mixture	Data not	N/A	N/A	N/A	N/A
14808-60-7),		available or				
surface		insufficient for				

modified with silsesquioxanes , methyl, ethoxy- terminated (CAS 104780- 78-1)		classification				
Poly(dimethyls iloxane)	63148-62-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	68855-54-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Vinyl- polydimethyl siloxane	68083-19-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Dimethyl methyl hydrogen silicone fluid	68037-59-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2-Propenoic acid, 2-methyl-, 3- (trimetoxysilyl) propyl ester, hydrolysis products with silica	67762-90-7	Data not available or insufficient for classification	N/A		N/A	N/A
Titanium dioxide	68917-18-0	Experimental BCF - Fish	42 days	Bioaccumulatio n factor	9.6	

# 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. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

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 numberNot applicableGroup standard nameNot applicableHSNO Hazard classificationRefer 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

2017	
Certified handler	Not required
Location Compliance Certificate	Not required
Hazardous atmosphere zone	Not required
Fire extinguishers	Not required
Emergency response plan	Not required
Secondary containment	Not required
Tracking	Not required
Warning signage	Not required

# **SECTION 16: Other information**

### **Revision information:**

Complete document review.

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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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