

# 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)

# **IDENTIFICATION:**

#### 1.1. Product identifier

3M<sup>TM</sup> Imprint<sup>TM</sup> 4 Penta<sup>TM</sup> Heavy Refill (71484)

**Product Identification Numbers** 70-2011-4139-0

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

**1.4. Emergency telephone number Company Emergency Hotline:**EMERGENCY: 1800 097 146 (Australia only)

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

31-6670-9, 31-6673-3

All components in this KIT are NOT classified as hazardous chemicals according to the Model Work Health and Safety Regulations, 2011, in accordance with applicable State and Territory legislation.

# **TRANSPORT INFORMATION**

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

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

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

# 3M Australia SDSs are available at www.3m.com.au



# 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

3M<sup>TM</sup> Imprint<sup>TM</sup> 4 Penta<sup>TM</sup> Heavy 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 Australia - Building A, 1 Rivett Road, North Ryde NSW 2113Telephone:136 136E Mail:productinfo.au@mmm.comWebsite:www.3m.com.au

# 1.4. Emergency telephone number

EMERGENCY: 1800 097 146 (Australia only)

# **SECTION 2: Hazard identification**

This product is NOT classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011, in accordance with applicable State and Territory legislation.

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

### 2.1. Classification of the substance or mixture

Not applicable.

### 2.2. Label elements

**Signal word** Not applicable.

Symbols

Not applicable.

**Pictograms** Not applicable

#### **Precautionary statements**

**Prevention:** P280E

Wear protective gloves.

# **2.3. Other assigned/identified product hazards** None known.

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

None known.

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

This material is a mixture.

Ingredient	CAS Nbr	% by Weight
Quartz (14808-60-7), surface modified with	None	40 - 60
silsesquioxanes, methyl, ethoxy-terminated		
(CAS 104780-78-1), bulk material		
Vinyl-Polydimethyl Siloxane	68083-19-2	20 - 40
Dimethyl Methyl Hydrogen Silicone Fluid	68037-59-2	1 - 20
Silane Treated Silica	67762-90-7	1 - 10
Allyltrimethylsilane	762-72-1	< 2
Aluminium oxide	1344-28-1	< 2
Polyethylene Glycol, Siloxane Terminated	27306-78-1	< 2

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### Inhalation

No need for first aid is anticipated.

# Skin contact

No need for first aid is anticipated.

#### 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

No need for first aid is anticipated.

### 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>
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.

# **SECTION 6: Accidental release measures**

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

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**

### 7.1. Precautions for safe handling

Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove.

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

Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidising agents. Store away from amines.

# **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
Aluminium oxide	1344-28-1	Australia OELs	TWA(Inspirable dust)(8	
			hours):10 mg/m3	
Aluminum, insoluble compounds	1344-28-1	ACGIH	TWA(respirable fraction):1	A4: Not class. as human
			mg/m3	carcin

CAS NO SEQ117921	1344-28-1	ACGIH	TWA(inhalable	
			particulates):10 mg/m3	
CAS NO SEQ117922	1344-28-1	ACGIH	TWA(respirable particles):3	
			mg/m3	

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 CEIL: 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**

Respiratory protection is not required.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Dharical state	
Physical state	Solid.
Specific Physical Form:	Paste
Colour	Blue
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	No flash point
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.	

#### Nanoparticles

This material contains nanoparticles.

# **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

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

#### 10.2 Chemical stability

Stable.

### **10.3.** Conditions to avoid

Heat.

### 10.4. Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### **10.5 Incompatible materials**

Amines. Strong acids. Strong bases. Strong oxidising agents.

# **10.6 Hazardous decomposition products**

<u>Substance</u>

None known.

**Condition** 

# **SECTION 11: Toxicological information**

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

**11.1 Information on Toxicological effects** 

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation

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

No known health effects.

# **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.

# **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 >5,000 mg/kg
Quartz (14808-60-7), surface modified with silsesquioxanes, methyl, ethoxy-terminated (CAS 104780-78-1), bulk material	Dermal		LD50 estimated to be > 5,000 mg/kg
Quartz (14808-60-7), surface modified with silsesquioxanes, methyl, ethoxy-terminated (CAS 104780-78-1), bulk material	Ingestion		LD50 estimated to be > 5,000 mg/kg
Vinyl-Polydimethyl Siloxane	Dermal	Rabbit	LD50 > 15,440 mg/kg
Vinyl-Polydimethyl Siloxane	Ingestion	Rat	LD50 > 15,440 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
Silane Treated Silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Silane Treated Silica	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Silane Treated Silica	Ingestion	Rat	LD50 > 5,110 mg/kg
Polyethylene Glycol, Siloxane Terminated	Dermal	Rabbit	LD50 > 2,000 mg/kg
Polyethylene Glycol, Siloxane Terminated	Inhalation-Dust/Mist (4 hours)	Rat	LC50 2 mg/l
Polyethylene Glycol, Siloxane Terminated	Ingestion	Rat	LD50 > 2,000 mg/kg
Aluminium oxide	Dermal		LD50 estimated to be $> 5,000 \text{ mg/kg}$
Aluminium oxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.3 mg/l
Aluminium oxide	Ingestion	Rat	LD50 > 5,000 mg/kg
Allyltrimethylsilane	Dermal	Professional judgement	LD50 estimated to be 2,000 - 5,000 mg/kg
Allyltrimethylsilane	Ingestion	similar compounds	LD50 estimated to be 2,000 - 5,000 mg/kg

# ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Name	Species	Value
Quartz (14808-60-7), surface modified with silsesquioxanes, methyl, ethoxy-terminated (CAS 104780-78-1), bulk material		No significant irritation
Vinyl-Polydimethyl Siloxane	Rabbit	No significant irritation
Dimethyl Methyl Hydrogen Silicone Fluid	Rabbit	No significant irritation
Silane Treated Silica	Rabbit	No significant irritation
Polyethylene Glycol, Siloxane Terminated	Rabbit	No significant irritation
Aluminium oxide	Rabbit	No significant irritation
Allyltrimethylsilane	Not available	Irritant

#### **Serious Eye Damage/Irritation**

Name	Species	Value
Vinyl-Polydimethyl Siloxane	Rabbit	Mild irritant
Dimethyl Methyl Hydrogen Silicone Fluid	Rabbit	Mild irritant
Silane Treated Silica	Rabbit	No significant irritation
Polyethylene Glycol, Siloxane Terminated	Rabbit	Severe irritant
Aluminium oxide	Rabbit	No significant irritation
Allyltrimethylsilane	Not available	Severe irritant

# Skin Sensitisation

Name	Species	Value
Dimethyl Methyl Hydrogen Silicone Fluid	Guinea pig	Not classified
Silane Treated Silica	Human and animal	Not classified
Polyethylene Glycol, Siloxane Terminated	Guinea pig	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
Quartz (14808-60-7), surface modified with silsesquioxanes, methyl, ethoxy-terminated (CAS 104780-78-1), bulk material	In Vitro	Some positive data exist, but the data are not sufficient for classification
Quartz (14808-60-7), surface modified with silsesquioxanes, methyl, ethoxy-terminated (CAS 104780-78-1), bulk material	In vivo	Some positive data exist, but the data are not sufficient for classification
Dimethyl Methyl Hydrogen Silicone Fluid	In Vitro	Not mutagenic
Silane Treated Silica	In Vitro	Not mutagenic
Polyethylene Glycol, Siloxane Terminated	In Vitro	Not mutagenic
Polyethylene Glycol, Siloxane Terminated	In vivo	Not mutagenic
Aluminium oxide	In Vitro	Not mutagenic
Allyltrimethylsilane	In Vitro	Not mutagenic

### Carcinogenicity

Name	Route	Species	Value
Quartz (14808-60-7), surface	Inhalation	Human and animal	Carcinogenic.
modified with silsesquioxanes,			
methyl, ethoxy-terminated (CAS			
104780-78-1), bulk material			
Silane Treated Silica	Not specified.	Mouse	Some positive data exist, but the data

			are not sufficient for classification
Aluminium oxide	Inhalation	Rat	Not carcinogenic

# **Reproductive Toxicity**

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

Name	Route	Value	Species	Test result	<b>Exposure Duration</b>
Silane Treated Silica	Ingestion	Not classified for	Rat	NOAEL 509	1 generation
		female reproduction		mg/kg/day	-
Silane Treated Silica	Ingestion	Not classified for	Rat	NOAEL 497	1 generation
		male reproduction		mg/kg/day	
Silane Treated Silica	Ingestion	Not classified for	Rat	NOAEL	during
		development		1,350	organogenesis
				mg/kg/day	
Polyethylene Glycol,	Ingestion	Not classified for	Rat	NOAEL 450	premating & during
Siloxane Terminated		reproduction and/or		mg/kg/day	gestation
		development			

# Target Organ(s)

# Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Allyltrimethyl silane	Inhalation	respiratory irritation	May cause respiratory irritation	Not available	NOAEL Not available	

# Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Quartz (14808-60-7), surface modified with silsesquioxane s, methyl, ethoxy- terminated (CAS 104780-78-1), bulk material	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Silane Treated Silica	Inhalation	respiratory system   silicosis	Not classified	Human	NOAEL Not available	occupational exposure
Aluminium oxide	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Aluminium oxide	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure

# **Aspiration Hazard**

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

### **Exposure Levels**

Refer Section 8.1 Control Parameters of this Safety Data Sheet.

# **Interactive Effects**

Not determined.

# **SECTION 12: Ecological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

### 12.1. Toxicity

#### Acute aquatic hazard:

Not acutely toxic to aquatic life by GHS criteria.

#### Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

Material	CAS Number	Organism	Туре	Exposure	Test endpoint	Test result
Quartz (14808- 60-7), surface modified with silsesquioxanes , methyl, ethoxy- terminated (CAS 104780- 78-1), bulk material	None		Data not available or insufficient for classification			N/A
Vinyl- Polydimethyl Siloxane	68083-19-2		Data not available or insufficient for classification			N/A
Dimethyl Methyl Hydrogen Silicone Fluid	68037-59-2		Data not available or insufficient for classification			N/A
Silane Treated Silica	67762-90-7		Data not available or insufficient for classification			N/A
Allyltrimethyls ilane	762-72-1		Data not available or insufficient for classification			N/A
Aluminium oxide	1344-28-1	Fish	Experimental	96 hours	LC50	>100 mg/l
Aluminium oxide	1344-28-1	Green Algae	Experimental	72 hours	EC50	>100 mg/l
Aluminium oxide	1344-28-1	Water flea	Experimental	48 hours	LC50	>100 mg/l
Aluminium oxide	1344-28-1	Green Algae	Experimental	72 hours	NOEC	>100 mg/l
Polyethylene	27306-78-1	Green Algae	Estimated	96 hours	EC50	32 mg/l

Glycol, Siloxane Terminated						
Polyethylene Glycol, Siloxane Terminated	27306-78-1	Rainbow trout	Estimated	96 hours	LC50	4.5 mg/l
Polyethylene Glycol, Siloxane Terminated	27306-78-1	Water flea	Estimated	48 hours	LC50	23.4 mg/l

# 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Quartz (14808- 60-7), surface modified with silsesquioxanes , methyl, ethoxy- terminated (CAS 104780- 78-1), bulk material	None	Data not available- insufficient	N/A	N/A	N/A	N/A
Vinyl- Polydimethyl Siloxane	68083-19-2	Data not available- insufficient	N/A	N/A	N/A	N/A
Dimethyl Methyl Hydrogen Silicone Fluid	68037-59-2	Data not available- insufficient	N/A	N/A	N/A	N/A
Silane Treated Silica	67762-90-7	Data not available- insufficient	N/A	N/A	N/A	N/A
Allyltrimethyls ilane	762-72-1	Estimated Biodegradation	28 days	BOD	9 % BOD/ThOD	OECD 301F - Manometric respirometry
Aluminium oxide	1344-28-1	Data not available- insufficient	N/A	N/A	N/A	N/A
Polyethylene Glycol, Siloxane Terminated	27306-78-1	Estimated Biodegradation	28 days	BOD	1 % BOD/ThOD	

# 12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Quartz (14808-	None	Data not	N/A	N/A	N/A	N/A
60-7), surface		available or				
modified with		insufficient for				
silsesquioxanes		classification				
, methyl,						
ethoxy-						

terminated (CAS 104780- 78-1), bulk material						
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
Silane Treated Silica	67762-90-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Allyltrimethyls ilane	762-72-1	Estimated Bioconcentrati on		Bioaccumulatio n factor	269	Estimated: Bioconcentration factor
Aluminium oxide	1344-28-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Polyethylene Glycol, Siloxane Terminated	27306-78-1	Estimated Bioconcentrati on		Bioaccumulatio n factor	331	Estimated: Bioconcentration factor

### 12.4. Mobility in soil

Please contact manufacturer for more details

### 12.5 Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

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

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate 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 may be placed in a landfill properly designed for industrial waste.

# **SECTION 14: Transport Information**

Australian Dangerous Goods Code (ADG) - Road/Rail Transport

UN No.: Not applicable. Proper shipping name: Not applicable. Class/Division: Not applicable. Sub Risk: Not applicable. Packing Group: Not applicable.

Hazchem Code: Not applicable IERG: Not applicable.

#### International Air Transport Association (IATA) - Air Transport UN No.: Not applicable. Proper shipping name: Not applicable. Class/Division: Not applicable. Sub Risk: Not applicable. Packing Group: Not applicable.

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

UN No.: Not applicable.
Proper shipping name: Not applicable.
Class/Division: Not applicable.
Sub Risk: Not applicable.
Packing Group: Not applicable.
Marine Pollutant: Not applicable.

# **SECTION 15: Regulatory information**

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

#### Australian Inventory Status:

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

# **SECTION 16: Other information**

#### **Revision information:**

Complete document review.

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

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

### 3M Australia SDSs are available at www.3m.com.au



# 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

3M<sup>™</sup> Imprint<sup>™</sup> 4 Penta<sup>™</sup> Heavy 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 Australia - Building A, 1 Rivett Road, North Ryde NSW 2113Telephone:136 136E Mail:productinfo.au@mmm.comWebsite:www.3m.com.au

1.4. Emergency telephone number

EMERGENCY: 1800 097 146 (Australia only)

# **SECTION 2: Hazard identification**

This product is NOT classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011, in accordance with applicable State and Territory legislation.

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

### 2.1. Classification of the substance or mixture

Not applicable.

#### 2.2. Label elements

**Signal word** Not applicable.

Symbols

Not applicable.

**Pictograms** Not applicable

#### **Precautionary statements**

**Prevention:** P280E

Wear protective gloves.

# **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	
Sodium aluminium silicate	37244-96-5	60 - 70	
Vinyl terminated polydimethylsiloxane	68083-19-2	15 - 25	
Poly(dimethylsiloxane)	63148-62-9	5 - 15	
2-Propenoic acid, 2-methyl-, 3-	67762-90-7	1 - 5	
(trimetoxysilyl)propyl ester, hydrolysis			
products with silica			
DL-Alpha-Tocopherol	10191-41-0	< 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

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

Substance	<b><u>Condition</u></b>
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.

# **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**

### 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.) Do not get in eyes.

### 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.

# **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

#### **Occupational exposure limits**

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

#### 8.2. Exposure controls

### 8.2.1. Engineering controls

Use in a well-ventilated area.

### **8.2.2.** Personal protective equipment (PPE)

### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face

protection(s) are recommended: Safety glasses with side shields.

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

#### Skin/hand protection

See Section 7.1 for additional information on skin protection.

#### **Respiratory protection**

None required.

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Solid.
Paste
White
Slight Odour, Characteristic Odour
No data available.
Not applicable.
Not applicable.
Not applicable.
No flash point
Not applicable.
Not classified
Not applicable.
Not applicable.
No data available.
No data available.
1.6 g/cm3 - 1.8 g/cm3
1.6 - 1.8 [ <i>Ref Std</i> :WATER=1]
Negligible
No data available.
No data available.
Not applicable.
No data available.
No data available.
Not applicable.
Not applicable.
Not applicable.

#### Nanoparticles

This material contains nanoparticles.

# **SECTION 10: Stability and reactivity**

# **10.1 Reactivity**

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

### 10.2 Chemical stability

Stable.

### 10.3. Conditions to avoid

Heat.

#### 10.4. Possibility of hazardous reactions

Hazardous polymerisation will not occur.

# **10.5 Incompatible materials**

Amines. Strong acids. Strong bases. Strong oxidising agents.

### 10.6 Hazardous decomposition products

<u>Substance</u>

None known.

**Condition** 

# **SECTION 11: Toxicological information**

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

**11.1 Information on Toxicological effects** 

Signs and Symptoms of Exposure

#### Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation

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	Dermal	Rabbit	LD50 > 15,440 mg/kg

polydimethylsiloxane			
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
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
DL-Alpha-Tocopherol	Dermal	Rat	LD50 > 3,000 mg/kg
DL-Alpha-Tocopherol	Ingestion	Rat	LD50 > 4,000 mg/kg
ATE - conto torrigity actimate			

ATE = acute toxicity estimate

#### **Skin Corrosion/Irritation**

Name	Species	Value
Sodium aluminium silicate	Professional judgement	No significant irritation
Vinyl terminated polydimethylsiloxane	Rabbit	No significant irritation
Poly(dimethylsiloxane)	Rabbit	No significant irritation
2-Propenoic acid, 2-methyl-, 3-	Rabbit	No significant irritation
(trimetoxysilyl)propyl ester, hydrolysis products		
with silica		
DL-Alpha-Tocopherol	Rabbit	Minimal irritation

# Serious Eye Damage/Irritation

Name	Species	Value
Sodium aluminium silicate	Professional judgement	Mild irritant
Vinyl terminated polydimethylsiloxane	Rabbit	Mild irritant
Poly(dimethylsiloxane)	Rabbit	No significant irritation
2-Propenoic acid, 2-methyl-, 3-	Rabbit	No significant irritation
(trimetoxysilyl)propyl ester, hydrolysis products		
with silica		
DL-Alpha-Tocopherol	Rabbit	No significant irritation

# **Skin Sensitisation**

Name	Species	Value
2-Propenoic acid, 2-methyl-, 3- (trimetoxysilyl)propyl ester, hydrolysis products 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
2-Propenoic acid, 2-methyl-, 3- (trimetoxysilyl)propyl ester, hydrolysis products with silica	In Vitro	Not mutagenic
DL-Alpha-Tocopherol	In vivo	Not mutagenic

# Carcinogenicity

Name	Route	Species	Value
2-Propenoic acid, 2-methyl-, 3-	Not specified.	Mouse	Some positive data exist, but the data
(trimetoxysilyl)propyl ester,			are not sufficient for classification
hydrolysis products with silica			

# **Reproductive Toxicity**

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

Name	Route	Value	Species	Test result	Exposure Duration
2-Propenoic acid, 2- methyl-, 3- (trimetoxysilyl)propy l ester, hydrolysis products with silica	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
2-Propenoic acid, 2- methyl-, 3- (trimetoxysilyl)propy l 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)propy l ester, hydrolysis products with silica	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis

#### Target Organ(s)

### Specific Target Organ Toxicity - single exposure

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

#### Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
2-Propenoic acid, 2- methyl-, 3- (trimetoxysily l)propyl ester, hydrolysis products with silica	Inhalation	respiratory system   silicosis	Not classified	Human	NOAEL Not available	occupational exposure

#### **Aspiration Hazard**

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

#### **Exposure Levels**

Refer Section 8.1 Control Parameters of this Safety Data Sheet.

### **Interactive Effects**

Not determined.

# **SECTION 12: Ecological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be

reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

# 12.1. Toxicity

# Acute aquatic hazard:

Not acutely toxic to aquatic life by GHS criteria.

#### Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

Material	CAS Number	Organism	Туре	Exposure	Test endpoint	Test result
Sodium	37244-96-5		Data not			N/A
aluminium			available or			
silicate			insufficient for			
			classification			
Vinyl	68083-19-2		Data not			N/A
terminated			available or			
polydimethylsil			insufficient for			
oxane			classification			
Poly(dimethyls	63148-62-9		Data not			N/A
iloxane)			available or			
			insufficient for			
			classification			
2-Propenoic	67762-90-7		Data not			N/A
acid, 2-methyl-,			available or			
3-			insufficient for			
(trimetoxysilyl)			classification			
propyl ester,						
hydrolysis						
products with						
silica						
DL-Alpha-	10191-41-0	Bacteria	Estimated	30 minutes	EC20	>927 mg/l
Tocopherol						
DL-Alpha-	10191-41-0	Golden Orfe	Experimental	96 hours	LC50	220 mg/l
Tocopherol						
DL-Alpha-	10191-41-0	Water flea	Experimental	48 hours	EC50	>500 mg/l
Tocopherol						

# 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Sodium aluminium silicate	37244-96-5	Data not available- insufficient	N/A	N/A	N/A	N/A
Vinyl terminated polydimethylsil oxane	68083-19-2	Data not available- insufficient	N/A	N/A	N/A	N/A
Poly(dimethyls iloxane)	63148-62-9	Data not available- insufficient	N/A	N/A	N/A	N/A
2-Propenoic	67762-90-7	Data not	N/A	N/A	N/A	N/A

acid, 2-methyl-,		available-				
3-		insufficient				
(trimetoxysilyl)						
propyl ester,						
hydrolysis						
products with						
silica						
DL-Alpha-	10191-41-0	Experimental	36 days	CO2 evolution	58.05 % weight	OECD 301B - Modified
Tocopherol		Biodegradation				sturm or CO2

# **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
2-Propenoic acid, 2-methyl-, 3- (trimetoxysilyl) propyl ester, hydrolysis products with silica		Data not available or insufficient for classification	N/A	N/A	N/A	N/A
DL-Alpha- Tocopherol	10191-41-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

### 12.4. Mobility in soil

Please contact manufacturer for more details

### 12.5 Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

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

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

# **SECTION 14: Transport Information**

# Australian Dangerous Goods Code (ADG) - Road/Rail Transport

UN No.: Not applicable. Proper shipping name: Not applicable. Class/Division: Not applicable. Sub Risk: Not applicable. Packing Group: Not applicable.

Hazchem Code: Not applicable IERG: Not applicable.

# International Air Transport Association (IATA) - Air Transport

UN No.: Not applicable.
Proper shipping name: Not applicable.
Class/Division: Not applicable.
Sub Risk: Not applicable.
Packing Group: Not applicable.

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

UN No.: Not applicable.
Proper shipping name: Not applicable.
Class/Division: Not applicable.
Sub Risk: Not applicable.
Packing Group: Not applicable.
Marine Pollutant: Not applicable.

# **SECTION 15: Regulatory information**

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

### Australian Inventory Status:

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

# **SECTION 16: Other information**

### **Revision information:**

Complete document review.

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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