



Safety Data Sheet

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| Issue Date: | 17/05/2022 | Supersedes date: | 08/03/2021 |

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™ Imprint™ 4 Penta™ Super Quick Heavy Refill (71485)

Product Identification Numbers

70-2011-4140-8

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:

31-6679-0, 31-6686-5

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™ Imprint™ 4 Penta™ Super Quick Heavy Base

1.2. Recommended use and restrictions on use

Recommended use

Dental Product, Impression Material

Restrictions on use

For use only by dental professionals in approved indications.

1.3. Supplier's details

Address: 3M Australia - Building A, 1 Rivett Road, North Ryde NSW 2113

Telephone: 136 136

E Mail: productinfo.au@mmm.com

Website: www.3m.com.au

1.4. Emergency telephone number

EMERGENCY: 1800 097 146 (Australia only)

SECTION 2: Hazard identification

This product is 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 |
|--|----------------|--------------------|
| Vinyl-polydimethyl siloxane | 68083-19-2 | 20 - 30 |
| Dimethyl methyl hydrogen silicone fluid | 68037-59-2 | 5 - 15 |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | 67762-90-7 | 1 - 10 |
| trimethyl-2-propenyl-silane | 762-72-1 | < 2 |
| Aluminium oxide | 1344-28-1 | < 2 |
| Polyethylene glycol, siloxane terminated | 27306-78-1 | < 2 |
| Titanium dioxide | 13463-67-7 | < 1.0 |

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

Material will not burn.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide.
Carbon dioxide.
Irritant vapours or gases.

Condition

During combustion.
During combustion.
During combustion.

5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ventilate the area with fresh air. 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 mg/m3 | A4: Not class. as human 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 | |
| Titanium dioxide | 13463-67-7 | ACGIH | TWA:10 mg/m³ | A4: Not class. as human carcin |
| Titanium dioxide | 13463-67-7 | Australia OELs | TWA(Inspirable dust)(8 hours):10 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

| | |
|--|---------------------------|
| Physical state | Solid. |
| Specific Physical Form: | Paste |
| Colour | Yellow |
| Odour | Slight Minty |
| Odour threshold | <i>No data available.</i> |
| pH | <i>No data available.</i> |
| Melting point/Freezing point | <i>Not applicable.</i> |
| Boiling point/Initial boiling point/Boiling range | <i>Not applicable.</i> |
| Flash point | No flash point |
| Evaporation rate | <i>No data available.</i> |
| Flammability (solid, gas) | Not classified |
| Flammable Limits(LEL) | <i>Not applicable.</i> |

| | |
|---|---|
| Flammable Limits(UEL) | <i>Not applicable.</i> |
| Vapour pressure | <i>No data available.</i> |
| Vapor Density and/or Relative Vapor Density | <i>No data available.</i> |
| Density | 1.5 g/cm ³ - 1.6 g/cm ³ |
| Relative density | 1.5 - 1.6 [Ref Std: WATER=1] |
| Water solubility | Negligible |
| Solubility- non-water | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | <i>Not applicable.</i> |
| Autoignition temperature | <i>No data available.</i> |
| Decomposition temperature | <i>No data available.</i> |
| Viscosity/Kinematic Viscosity | <i>No data available.</i> |
| Volatile organic compounds (VOC) | <i>Not applicable.</i> |
| Percent volatile | <i>Not applicable.</i> |
| VOC less H ₂ O & exempt solvents | <i>Not applicable.</i> |

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**Substance****Condition**

None known.

SECTION 11: Toxicological information

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

11.1 Information on Toxicological effects**Signs and Symptoms of Exposure**

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

Inhalation

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 |
| 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 |
| 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 |
| 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 mg/kg |
| Aluminium oxide | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 2.3 mg/l |
| Aluminium oxide | Ingestion | Rat | LD50 > 5,000 mg/kg |
| trimethyl-2-propenyl-silane | Dermal | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| trimethyl-2-propenyl-silane | Ingestion | similar compounds | 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 |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--|---------------|---------------------------|
| Vinyl-polydimethyl siloxane | Rabbit | No significant irritation |
| Dimethyl methyl hydrogen silicone fluid | Rabbit | No significant irritation |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Rabbit | No significant irritation |
| Polyethylene glycol, siloxane terminated | Rabbit | No significant irritation |
| Aluminium oxide | Rabbit | No significant irritation |
| trimethyl-2-propenyl-silane | Not available | Irritant |
| Titanium dioxide | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|---------------|---------------------------|
| Vinyl-polydimethyl siloxane | Rabbit | Mild irritant |
| Dimethyl methyl hydrogen silicone fluid | Rabbit | Mild irritant |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Rabbit | No significant irritation |
| Polyethylene glycol, siloxane terminated | Rabbit | Severe irritant |
| Aluminium oxide | Rabbit | No significant irritation |
| trimethyl-2-propenyl-silane | Not available | Severe irritant |
| Titanium dioxide | Rabbit | No significant irritation |

Skin Sensitisation

| Name | Species | Value |
|--|------------------|----------------|
| Dimethyl methyl hydrogen silicone fluid | Guinea pig | Not classified |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Human and animal | Not classified |
| Polyethylene glycol, siloxane terminated | Guinea pig | Not classified |
| Titanium dioxide | Human and animal | 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 |
|--|----------|---------------|
| Dimethyl methyl hydrogen silicone fluid | In Vitro | Not mutagenic |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with 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 |
| trimethyl-2-propenyl-silane | In Vitro | Not mutagenic |
| Titanium dioxide | In Vitro | Not mutagenic |
| Titanium dioxide | In vivo | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|--|----------------|-------------------------|--|
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Not specified. | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Aluminium oxide | Inhalation | Rat | 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 |
|--|-----------|--|---------|-----------------------|--------------------------------|
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl 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)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 |
| Polyethylene glycol, siloxane terminated | Ingestion | Not classified for reproduction and/or development | Rat | NOAEL 450 mg/kg/day | prematuring & during gestation |

Target Organ(s)**Specific Target Organ Toxicity - single exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|-----------------------------|------------|------------------------|----------------------------------|---------------|---------------------|-------------------|
| trimethyl-2-propenyl-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 |
|--|------------|--------------------------------|--|---------|---------------------|-----------------------|
| 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 |
| 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 |
| 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 |

Aspiration Hazard

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

Exposure Levels

Refer Section 8.1 **Control Parameters** of this Safety Data Sheet.

Interactive Effects

Not determined.

SECTION 12: Ecological information

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

12.1. Toxicity

Acute aquatic hazard:

Not acutely toxic to aquatic life by GHS criteria.

Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

| Material | CAS Number | Organism | Type | Exposure | Test endpoint | Test result |
|---|------------|----------|---|----------|---------------|-------------|
| 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 |
| 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 |
| trimethyl-2-propenyl-silane | 762-72-1 | | Data not available or | | | N/A |

| | | | | | | |
|--|------------|------------------|---------------------------------|----------|------|--------------|
| | | | insufficient for classification | | | |
| 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 glycol, siloxane terminated | 27306-78-1 | Green Algae | Estimated | 96 hours | EC50 | 32 mg/l |
| 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 |
| Titanium dioxide | 13463-67-7 | Activated sludge | Experimental | 3 hours | NOEC | >=1,000 mg/l |
| Titanium dioxide | 13463-67-7 | Diatom | Experimental | 72 hours | EC50 | >10,000 mg/l |
| 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 |

12.2. Persistence and degradability

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|---|------------|---------------------------------|----------|------------|--------------|-------------------------------------|
| 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 |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl) propyl ester, hydrolysis products with silica | 67762-90-7 | Data not available-insufficient | N/A | N/A | N/A | N/A |
| trimethyl-2-propenyl-silane | 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 | |
| Titanium dioxide | 13463-67-7 | Data not available-insufficient | N/A | N/A | N/A | N/A |

12.3 : Bioaccumulative potential

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|---|------------|---|----------|------------------------|-------------|------------------------------------|
| 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 | N/A |
| trimethyl-2-propenyl-silane | 762-72-1 | Estimated Bioconcentration | | Bioaccumulation 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 Bioconcentration | | Bioaccumulation factor | 331 | Estimated: Bioconcentration factor |
| Titanium dioxide | 13463-67-7 | Experimental BCF - Carp | 42 days | Bioaccumulation factor | 9.6 | Non-standard method |

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



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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™ Imprint™ 4 Penta™ Super Quick 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 2113

Telephone: 136 136

E Mail: productinfo.au@mmm.com

Website: www.3m.com.au

1.4. Emergency telephone number

EMERGENCY: 1800 097 146 (Australia only)

SECTION 2: Hazard identification

This product is 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-Polydimethylsiloxane | 68083-19-2 | 15 - 25 |
| Poly(Dimethylsiloxane) | 63148-62-9 | 5 - 15 |
| Silane Treated Silica | 67762-90-7 | 1 - 5 |
| DL-Alpha-Tocopherol | 10191-41-0 | < 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

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**

Material will not burn.

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

No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. 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.)

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

| | |
|---|---|
| Physical state | Solid. |
| Specific Physical Form: | Paste |
| Colour | White |
| Odour | Slight Odour, Characteristic Odour |
| Odour threshold | <i>No data available.</i> |
| pH | <i>No data available.</i> |
| Melting point/Freezing point | <i>Not applicable.</i> |
| Boiling point/Initial boiling point/Boiling range | <i>Not applicable.</i> |
| Flash point | No flash point |
| Evaporation rate | <i>Not applicable.</i> |
| Flammability (solid, gas) | Not classified |
| Flammable Limits(LEL) | <i>No data available.</i> |
| Flammable Limits(UEL) | <i>No data available.</i> |
| Vapour pressure | <i>No data available.</i> |
| Vapor Density and/or Relative Vapor Density | <i>No data available.</i> |
| Density | 1.6 g/cm ³ - 1.7 g/cm ³ |
| Relative density | 1.6 - 1.7 [Ref Std: WATER=1] |
| Water solubility | Negligible |
| Solubility- non-water | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Autoignition temperature | <i>No data available.</i> |
| Decomposition temperature | <i>No data available.</i> |
| Viscosity/Kinematic Viscosity | <i>No data available.</i> |
| Volatile organic compounds (VOC) | <i>Not applicable.</i> |
| Percent volatile | <i>Not applicable.</i> |
| VOC less H ₂ O & exempt solvents | <i>Not applicable.</i> |

SECTION 10: Stability and reactivity

10.1 Reactivity

This material 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> | <u>Condition</u> |
|------------------|------------------|
| None known. | |

SECTION 11: Toxicological information

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

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation

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-Polydimethylsiloxane | Dermal | Rabbit | LD50 > 15,440 mg/kg |
| Vinyl-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 |
| Silane Treated Silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Silane Treated Silica | Inhalation-Dust/Mist | Rat | LC50 > 0.691 mg/l |

| | (4 hours) | | |
|-----------------------|-----------|-----|--------------------|
| Silane Treated 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 = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|----------------------------|------------------------|---------------------------|
| Sodium Aluminium Silicate | Professional judgement | No significant irritation |
| Vinyl-Polydimethylsiloxane | Rabbit | No significant irritation |
| Poly(Dimethylsiloxane) | Rabbit | No significant irritation |
| Silane Treated Silica | Rabbit | No significant irritation |
| DL-Alpha-Tocopherol | Rabbit | Minimal irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|----------------------------|------------------------|---------------------------|
| Sodium Aluminium Silicate | Professional judgement | Mild irritant |
| Vinyl-Polydimethylsiloxane | Rabbit | Mild irritant |
| Poly(Dimethylsiloxane) | Rabbit | No significant irritation |
| Silane Treated Silica | Rabbit | No significant irritation |
| DL-Alpha-Tocopherol | Rabbit | No significant irritation |

Skin Sensitisation

| Name | Species | Value |
|-----------------------|------------------|----------------|
| Silane Treated 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 |
|-----------------------|----------|---------------|
| Silane Treated Silica | In Vitro | Not mutagenic |
| DL-Alpha-Tocopherol | In vivo | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|-----------------------|----------------|---------|--|
| Silane Treated Silica | Not specified. | Mouse | Some positive data exist, but the data are not sufficient for classification |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|-----------------------|-----------|--|---------|-----------------------|----------------------|
| Silane Treated Silica | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Silane Treated Silica | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Silane Treated 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 |
|-----------------------|------------|--------------------------------|----------------|---------|---------------------|-----------------------|
| Silane Treated 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 | Type | Exposure | Test endpoint | Test result |
|----------------------------|------------|----------|---|------------|---------------|-------------|
| Sodium Aluminium Silicate | 37244-96-5 | | Data not available or insufficient for classification | | | N/A |
| Vinyl-Polydimethylsiloxane | 68083-19-2 | | Data not available or insufficient for classification | | | N/A |
| Poly(Dimethylsiloxane) | 63148-62-9 | | Data not available or insufficient for classification | | | N/A |
| Silane Treated Silica | 67762-90-7 | | Data not available or insufficient for classification | | | N/A |
| DL-Alpha- | 10191-41-0 | Bacteria | Estimated | 30 minutes | EC20 | >927 mg/l |

| | | | | | | |
|---------------------|------------|-------------|--------------|----------|------|-----------|
| Tocopherol | | | | | | |
| DL-Alpha-Tocopherol | 10191-41-0 | Golden Orfe | Experimental | 96 hours | LC50 | 220 mg/l |
| DL-Alpha-Tocopherol | 10191-41-0 | Water flea | Experimental | 48 hours | EC50 | >500 mg/l |

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-Polydimethylsiloxane | 68083-19-2 | Data not available-insufficient | N/A | N/A | N/A | N/A |
| Poly(Dimethylsiloxane) | 63148-62-9 | 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 |
| DL-Alpha-Tocopherol | 10191-41-0 | Experimental Biodegradation | 36 days | CO2 evolution | 58.05 % weight | OECD 301B - Modified 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-Polydimethylsiloxane | 68083-19-2 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Poly(Dimethylsiloxane) | 63148-62-9 | 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 |
| 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 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.

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