

# **Safety Data Sheet**

© 2018, 3M Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilising 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

Document group:	37-9072-2	Version number:	1.00
Issue Date:	29/10/2018	Supersedes date:	Initial issue.

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> Impregum Penta Super Quick Medium Body Refill

#### **Product Identification Numbers** 70-2011-4623-3

# 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 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:

37-9016-9, 37-9020-1

One or more components of this KIT is classified as a hazardous substance in accordance with the relevant criteria of the HSNO Act 1996, the Hazardous Substances (Classification) Notice 2017 and the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017.

# **TRANSPORT INFORMATION**

The Components of this KIT have various Dangerous Goods Transportation Classifications. Please refer to the attached

component Safety Data Sheets for individual Transportation Classifications.

#### **Revision information:**

Initial issue.

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date of issue. TO THE EXTENT PERMITTED BY LAW, 3M MAKES NO WARRANTY, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluates the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. 3M provides information in electronic form as a service to customers. Due to the remote possibility of electronic transfer may have resulted in errors, omissions or alterations in this information; 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from 3M.

## 3M New Zealand SDS are available at 3M New Zealand Website: http://solutions.3mnz.co.nz



# **Safety Data Sheet**

 $\bigcirc$  2024, 3M Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

Document group:	37-9020-1	Version number:	3.00
Issue Date:	10/03/2024	Supersedes date:	29/10/2018

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> Impregum<sup>™</sup> Penta<sup>™</sup> Super Quick MB Ctalyst

#### 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 deta	ails
Address:	3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland
Telephone:	(09) 477 4040
E Mail:	innovation@nz.mmm.com
Website:	3m.co.nz

1.4. Emergency telephone number

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

# **SECTION 2: Hazard identification**

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

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

#### **2.1.** Classification of the substance or mixture

Skin irritation: Category 2 Skin sensitisation: Category 1 Hazardous to the aquatic environment chronic: Category 2

**2.2. Label elements SIGNAL WORD** Warning

Symbols:

Exclamation mark |Environment |

## Pictograms



HAZARD STATEMENTS:	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

H411

Toxic to aquatic life with long lasting effects.

## PRECAUTIONARY STATEMENTS

<b>Prevention</b> P261 P264 P272 P273 P280E	Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves.
<b>Response</b> P302 + P352 P333 + P313 P362 + P364 P391	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage.
<b>Disposal</b> P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

## 2.3. Other hazards

The silicosis target organ toxicity classification is not applied because there is no potential for inhalation exposure.

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

Ingredient	CAS Nbr	% by Weight
Sulfonium, [2-carboxy-1-(carboxymethyl)ethyl]dodecylethyl-, mixed Me	2220260-54-6	20 - 40
and pentyl diesters, tetrafluoroborates		
Polyethylene-polypropylene glycol	9003-11-6	10 - 30
2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis	68909-20-6	10 - 30
products with silica		
Diatomaceous earth	68855-54-9	10 - 30
Plasticiser	82469-79-2	1 - 20
Poly(Tetramethylene Ether)	25190-06-1	< 5
Titanium dioxide	13463-67-7	< 1
2,6-Di-tert-butyl-p-cresol	128-37-0	< 0.5
Dibenzyltoluene	53585-53-8	< 0.1

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

#### Skin contact

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

#### Eye contact

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

# If swallowed

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

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

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

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

Not applicable

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

#### 5.1. Suitable extinguishing media

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

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

None inherent in this product.

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

<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.

#### 5.4. Hazchem code: $2\mathbf{Z}$

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

# **6.2.** Environmental precautions

Avoid release to the environment.

# 6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with

applicable local/regional/national/international regulations.

# **SECTION 7: Handling and storage**

Refer to Section 15 - Controls for more information

# 7.1. Precautions for safe handling

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Do not get in eyes. 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.

# 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.

for the component.				
Ingredient	CAS Nbr	Agency	Limit type	Additional comments
2,6-Di-tert-butyl-p-cresol	128-37-0	ACGIH	TWA(inhalable fraction and vapor):2 mg/m3	A4: Not class. as human carcinogin
2,6-Di-tert-butyl-p-cresol	128-37-0	New Zealand WES	TWA(8 hours):10 mg/m3	Dermal sensitizer
Titanium dioxide	13463-67-7	ACGIH	TWA(Respirable nanoscale particles):0.2 mg/m3;TWA(Respirable finescale particles):2.5 mg/m3	A3: Confirmed animal carcinogen.
Titanium dioxide	13463-67-7	New Zealand WES	TWA(8 hours):10 mg/m3	
Dust, inert or nuisance	68855-54-9	New Zealand WES	TWA(as respirable dust)(8 hours):3 mg/m3;TWA(as inhalable dust)(8 hours):10 mg/m3	
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	68855-54-9		TWA(respirable particles):3 mg/m3	
ACGIH : American Conference of Governm AIHA : American Industrial Hygiene Assoc CMRG : Chemical Manufacturer's Recomm New Zealand WES : New Zealand Workpla TWA: Time-Weighted-Average STEL: Short Term Exposure Limit ppm: parts per million mg/m <sup>3</sup> : milligrams per cubic metre CEIL: Ceiling	viation nended Guideline	s		

## 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	Dark Red		
Odour	Slight Acrid		
Odour threshold	No data available.		
рН	No data available.		
Melting point/Freezing point	No data available.		
Boiling point/Initial boiling point/Boiling range	Not applicable.		
Flash point	No flash point		
Evaporation rate	Not applicable.		
Flammability (solid, gas)	Not classified		
Flammable Limits(LEL)	Not applicable.		
Flammable Limits(UEL)	Not applicable.		
Vapour pressure	Not applicable.		
Vapor Density and/or Relative Vapor Density	Not applicable.		
Relative density	1.1 - 1.4 [ <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	No data available.		
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**

Strong acids. Strong bases. Strong oxidising agents.

#### 10.6 Hazardous decomposition products

Substance 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

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

#### Eye contact

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

#### Ingestion

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

#### 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	Ingestion		No data available; calculated ATE >5,000 mg/kg
Sulfonium, [2-carboxy-1-(carboxymethyl)ethyl]dodecylethyl-, mixed Me and pentyl diesters, tetrafluoroborates	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
Sulfonium, [2-carboxy-1-(carboxymethyl)ethyl]dodecylethyl-, mixed Me and pentyl diesters, tetrafluoroborates	Ingestion	Rat	LD50 > 2,000 mg/kg
2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica	Ingestion	Rat	LD50 > 2,000 mg/kg
2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica	Dermal	similar health hazards	LD50 estimated to be > 5,000 mg/kg
Polyethylene-polypropylene glycol	Dermal	similar compoun ds	LD50 > 2,000 mg/kg
Polyethylene-polypropylene glycol	Ingestion	similar compoun ds	LD50 > 5,000 mg/kg
Diatomaceous earth	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
Diatomaceous earth	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 2.7 mg/l
Diatomaceous earth	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
2,6-Di-tert-butyl-p-cresol	Dermal	Rat	LD50 > 2,000 mg/kg
2,6-Di-tert-butyl-p-cresol	Ingestion	Rat	LD50 > 2,930 mg/kg
Dibenzyltoluene	Dermal	Rat	LD50 > 2,000 mg/kg
Dibenzyltoluene	Ingestion	Rat	LD50 > 10,360 mg/kg

ATE = acute toxicity estimate

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

Name	Species	Value
Sulfonium, [2-carboxy-1-(carboxymethyl)ethyl]dodecylethyl-, mixed Me and pentyl diesters, tetrafluoroborates	Professio nal judgemen t	Irritant
2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica	Rabbit	No significant irritation
Polyethylene-polypropylene glycol	similar compoun ds	No significant irritation
Diatomaceous earth	In vitro data	No significant irritation
Titanium dioxide	Rabbit	No significant irritation
2,6-Di-tert-butyl-p-cresol	Human and animal	Minimal irritation
Dibenzyltoluene	Rabbit	Mild irritant

## Serious Eye Damage/Irritation

Name	Species	Value
Sulfonium, [2-carboxy-1-(carboxymethyl)ethyl]dodecylethyl-, mixed Me and pentyl diesters, tetrafluoroborates	In vitro data	No significant irritation
2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica	Rabbit	No significant irritation
Polyethylene-polypropylene glycol	similar compoun ds	No significant irritation
Diatomaceous earth	Rabbit	Mild irritant
Titanium dioxide	Rabbit	No significant irritation
2,6-Di-tert-butyl-p-cresol	Rabbit	Mild irritant
Dibenzyltoluene	Rabbit	No significant irritation

## Sensitisation:

#### **Skin Sensitisation**

Name	Species	Value
Sulfonium, [2-carboxy-1-(carboxymethyl)ethyl]dodecylethyl-, mixed Me and	In vitro	Sensitising
pentyl diesters, tetrafluoroborates	data	
2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products	Guinea	Not classified
with silica	pig	
Polyethylene-polypropylene glycol	Guinea	Not classified
	pig	
Diatomaceous earth	Mouse	Not classified
Titanium dioxide	Human	Not classified
	and	
	animal	
2,6-Di-tert-butyl-p-cresol	Human	Not classified
Dibenzyltoluene	Guinea	Not classified
	pig	

# **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
Sulfonium, [2-carboxy-1-(carboxymethyl)ethyl]dodecylethyl-, mixed Me and pentyl diesters, tetrafluoroborates	In Vitro	Not mutagenic
2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica	In Vitro	Not mutagenic
Polyethylene-polypropylene glycol	In Vitro	Not mutagenic
Diatomaceous earth	In Vitro	Some positive data exist, but the data are not sufficient for classification
Titanium dioxide	In Vitro	Not mutagenic
Titanium dioxide	In vivo	Not mutagenic
2,6-Di-tert-butyl-p-cresol	In Vitro	Not mutagenic
2,6-Di-tert-butyl-p-cresol	In vivo	Not mutagenic
Dibenzyltoluene	In Vitro	Not mutagenic
Dibenzyltoluene	In vivo	Not mutagenic

#### Carcinogenicity

Name	Route	Species	Value
Diatomaceous earth	Inhalation	Human	Carcinogenic.
		and	-
		animal	
Titanium dioxide	Ingestion	Multiple	Not carcinogenic
	-	animal	-

		species	
Titanium dioxide	Inhalation	Rat	Carcinogenic.
2,6-Di-tert-butyl-p-cresol	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification

# **Reproductive Toxicity**

# **Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration
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
2,6-Di-tert-butyl-p-cresol	Ingestion	Not classified for female reproduction	Rat	NOAEL 500 mg/kg/day	2 generation
2,6-Di-tert-butyl-p-cresol	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 mg/kg/day	2 generation
2,6-Di-tert-butyl-p-cresol	Ingestion	Not classified for development	Rat	NOAEL 100 mg/kg/day	2 generation
Dibenzyltoluene	Ingestion	Toxic to male reproduction	Rat	NOAEL 250 mg/kg/day	28 days
Dibenzyltoluene	Ingestion	Toxic to female reproduction	Rat	NOAEL 250 mg/kg/day	premating into lactation
Dibenzyltoluene	Ingestion	Toxic to development	Rabbit	LOAEL 10 mg/kg/day	during gestation

# Target Organ(s)

# Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Dibenzyltoluene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	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	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 0.035 mg/l	13 weeks
2-Propenoic acid, 2- methyl-, 3- (trimetoxysilyl)propyl ester, hydrolysis products with silica	Inhalation	hematopoietic system   kidney and/or bladder	Not classified	Rat	NOAEL 0.035 mg/l	13 weeks
2-Propenoic acid, 2- methyl-, 3- (trimetoxysilyl)propyl ester, hydrolysis products with silica	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	5 weeks
Diatomaceous earth	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Diatomaceous earth	Ingestion	hematopoietic system   eyes   kidney and/or bladder	Not classified	Rat	NOAEL 3,738 mg/kg/day	90 days
Titanium dioxide	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for	Rat	LOAEL 0.01 mg/l	2 years

			classification			
Titanium dioxide	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
2,6-Di-tert-butyl-p-cresol	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 250 mg/kg/day	28 days
2,6-Di-tert-butyl-p-cresol	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg/day	2 generation
2,6-Di-tert-butyl-p-cresol	Ingestion	blood	Not classified	Rat	LOAEL 420 mg/kg/day	40 days
2,6-Di-tert-butyl-p-cresol	Ingestion	endocrine system	Not classified	Rat	NOAEL 25 mg/kg/day	2 generation
2,6-Di-tert-butyl-p-cresol	Ingestion	heart	Not classified	Mouse	NOAEL 3,480 mg/kg/day	10 weeks
Dibenzyltoluene	Ingestion	liver   kidney and/or bladder   heart   skin   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles   nervous system   eyes   respiratory system   vascular system	Not classified	Rat	NOAEL 500 mg/kg/day	120 days

#### **Aspiration Hazard**

Name	Value
Dibenzyltoluene	Aspiration hazard

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

## Ecotoxic to the aquatic environment.

Acute Aquatic Toxicity: Category 2 Chronic Aquatic Toxicity: Category 2

No product test data available.

Material	CAS Number	Organism	Туре	Exposure	Test endpoint	Test result
Sulfonium, [2-	2220260-54-6	Green algae	Estimated	72 hours	EC50	1.3 mg/l
carboxy-1-		_				_
(carboxymethyl						
)ethyl]dodecyle						
thyl-, mixed						
Me and pentyl						
diesters,						
tetrafluoroborat						
es						

		1	I			
Diatomaceous earth	68855-54-9	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100 mg/l
Diatomaceous	68855-54-9	Rainbow trout	Experimental	96 hours	No tox obs at	>100 mg/l
earth			1		lmt of water sol	
Diatomaceous	68855-54-9	Water flea	Experimental	48 hours	No tox obs at	>100 mg/l
earth			1		lmt of water sol	
Diatomaceous	68855-54-9	Green algae	Experimental	72 hours	No tox obs at	>100 mg/l
earth			1		lmt of water sol	
Diatomaceous	68855-54-9	Activated	Experimental	3 hours	EC50	>1,000 mg/l
earth		sludge	1			
Polyethylene-	9003-11-6	N/A	Data not	N/A	N/A	N/A
polypropylene			available or			
glycol			insufficient for			
			classification			
2-Propenoic	68909-20-6	Algae or other	Estimated	72 hours	EC50	>100 mg/l
acid, 2-methyl-,		aquatic plants				-
3-						
(trimetoxysilyl)						
propyl ester,						
hydrolysis						
products with						
silica						
Plasticiser	82469-79-2	Green algae	Experimental	72 hours	No tox obs at	>100 mg/l
					lmt of water sol	
Plasticiser	82469-79-2	Rainbow trout	Experimental	96 hours	No tox obs at	>100 mg/l
					lmt of water sol	
Plasticiser	82469-79-2	Water flea	Experimental	48 hours	EC50	0.38 mg/l
Plasticiser	82469-79-2	Fathead	Experimental	28 days	NOEC	0.252 mg/l
		minnow				
Plasticiser	82469-79-2	Green algae	Experimental	72 hours	No tox obs at	100 mg/l
D1 (* *	02460 70 2			21.1	Imt of water sol	0.074 /1
Plasticiser	82469-79-2	Water flea	Experimental	21 days	NOEC	0.074 mg/l
Plasticiser	82469-79-2	Activated sludge	Experimental	3 hours	IC50	>10 mg/l
Plasticiser	82469-79-2	Redworm	Experimental	14 days	LC50	1,000 mg/kg (Dry
						Weight)
Plasticiser	82469-79-2	Wheat	Experimental	14 days	LC50	>1,000 mg/kg (Dry
						Weight)
Poly(Tetrameth	25190-06-1	Zebra Fish	Experimental	96 hours	LC50	5.9 mg/l
ylene Ether)						
Poly(Tetrameth	25190-06-1	Activated	Experimental	30 minutes	EC20	450 mg/l
ylene Ether)		sludge				
Titanium	13463-67-7	Activated	Experimental	3 hours	NOEC	>=1,000 mg/l
dioxide		sludge				
Titanium	13463-67-7	Diatom	Experimental	72 hours	EC50	>10,000 mg/l
dioxide						
Titanium	13463-67-7	Fathead	Experimental	96 hours	LC50	>100 mg/l
dioxide		minnow				
Titanium	13463-67-7	Water flea	Experimental	48 hours	EC50	>100 mg/l
dioxide						
Titanium	13463-67-7	Diatom	Experimental	72 hours	NOEC	5,600 mg/l
dioxide			:			
2,6-Di-tert-	128-37-0	Activated	Experimental	3 hours	EC50	>10,000 mg/l
butyl-p-cresol		sludge				

2,6-Di-tert-	128-37-0	Green algae	Experimental	72 hours	EC50	>0.4 mg/l
butyl-p-cresol			1			C C
2,6-Di-tert-	128-37-0	Water flea	Experimental	48 hours	EC50	0.48 mg/l
butyl-p-cresol			-			_
2,6-Di-tert-	128-37-0	Zebra Fish	Experimental	96 hours	No tox obs at	>100 mg/l
butyl-p-cresol					lmt of water sol	
2,6-Di-tert-	128-37-0	Green algae	Experimental	72 hours	EC10	0.4 mg/l
butyl-p-cresol						
2,6-Di-tert-	128-37-0	Medaka	Experimental	42 days	NOEC	0.053 mg/l
butyl-p-cresol						
2,6-Di-tert-	128-37-0	Water flea	Experimental	21 days	NOEC	0.023 mg/l
butyl-p-cresol						
Dibenzyltoluen	53585-53-8	Bacteria	Experimental	4.92 hours	EC10	>1,000 mg/l
e						
Dibenzyltoluen	53585-53-8	Copepod	Experimental	48 hours	LC50	>0.0206 mg/l
e						
Dibenzyltoluen	53585-53-8	Green algae	Experimental	96 hours	EC50	0.019 mg/l
e						
Dibenzyltoluen	53585-53-8	Water flea	Experimental	48 hours	EC50	>0.029 mg/l
e						
Dibenzyltoluen	53585-53-8	Zebra Fish	Experimental	96 hours	No tox obs at	>100 mg/l
e					lmt of water sol	
Dibenzyltoluen	53585-53-8	Green algae	Experimental	96 hours	EC10	0.006 mg/l
e						
Dibenzyltoluen	53585-53-8	Water flea	Experimental	21 days	NOEC	0.03 mg/l
e						

# 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Sulfonium, [2-	2220260-54-6	Experimental	28 days	BOD	60 %BOD/ThO	OECD 301F -
carboxy-1-		Biodegradation	-		D (< 10 day	Manometric
(carboxymethyl					window)	respirometry
)ethyl]dodecyle						
thyl-, mixed						
Me and pentyl						
diesters,						
tetrafluoroborat						
es						
Sulfonium, [2-	2220260-54-6	Experimental		Hydrolytic	8 minutes (t	
carboxy-1-		Hydrolysis		half-life	1/2)	
(carboxymethyl						
)ethyl]dodecyle						
thyl-, mixed						
Me and pentyl						
diesters,						
tetrafluoroborat						
es						
Diatomaceous	68855-54-9	Data not	N/A	N/A	N/A	N/A
earth		availbl-				
		insufficient				
Polyethylene-	9003-11-6	Data not	N/A	N/A	N/A	N/A
polypropylene		availbl-				
glycol		insufficient				

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
Plasticiser	82469-79-2	Experimental Biodegradation	28 days	CO2 evolution	4 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
Poly(Tetrameth ylene Ether)	25190-06-1	Experimental Biodegradation	28 days	BOD	33 %BOD/ThO D	OECD 301F - Manometric respirometry
Titanium dioxide	13463-67-7	Data not availbl- insufficient	N/A	N/A	N/A	N/A
2,6-Di-tert- butyl-p-cresol	128-37-0	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Dibenzyltoluen e	53585-53-8	Experimental Biodegradation	28 days	BOD	0.5 %BOD/Th OD	OECD 301D - Closed bottle test

# 12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Diatomaceous earth	68855-54-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Polyethylene- polypropylene glycol	9003-11-6	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
Plasticiser	82469-79-2	Hydrolysis product Bioconcentrati on		Bioaccumulatio n factor	300	Catalogic™
Plasticiser	82469-79-2	Experimental Bioconcentrati on		Log Kow	>4	EC A.8 Partition Coefficient
Poly(Tetrameth ylene Ether)	25190-06-1	Modeled Bioconcentrati on		Bioaccumulatio n factor	6.1	Catalogic™
Poly(Tetrameth ylene Ether)	25190-06-1	Modeled Bioconcentrati on		Log Kow	5.5	Episuite™

Titanium	13463-67-7	Experimental	42 days	Bioaccumulatio	9.6	
dioxide		BCF - Fish		n factor		
2,6-Di-tert-	128-37-0	Experimental	56 days	Bioaccumulatio	1277	OECD305-
butyl-p-cresol		BCF - Fish	_	n factor		Bioconcentration
Dibenzyltoluen	53585-53-8	Experimental	56 days	Bioaccumulatio	6300	OECD305-
e		BCF - Fish	-	n factor		Bioconcentration

## 12.4. Mobility in soil

Please contact manufacturer for more details

#### 12.5 Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

## 13.1. Disposal methods

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

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

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

# **SECTION 14: Transport Information**

## New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport

UN No.: UN3077 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (BHT, Plasticizer) Class/Division: 9 Sub Risk: Not applicable. Packing Group: III Special Instructions: Not restricted, environmentally hazardous substance exception. Hazchem Code: 2Z IERG: 47

## International Air Transport Association (IATA) - Air Transport

UN No.: UN3077 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (BHT, Plasticizer) Class/Division: 9 Sub Risk: Not applicable. Packing Group: III Special Instructions: For vessels containing a net quantity of 5 l or a net mass of 5 kg or less per single or inner packaging Not restricted, as per Special Provision A197, environmentally hazardous substance exception.

## International Maritime Dangerous Goods Code (IMDG) - Marine Transport UN No.: UN3077 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (BHT, Plasticizer) Class/Division: 9 Sub Risk: Not applicable. Packing Group: III Marine Pollutant: BHT, Plasticizer Special Instructions: For vessels containing a net quantity of 5 1 or a net mass of 5 kg or less per single or inner packaging Not restricted, as per IMDG code 2.10.2.7, marine pollutant exception.

# **SECTION 15: Regulatory information**

HSNO Approval number	HSR002558
Group standard name	Dental Products (Subsidiary Hazard) Group Standard 2020
HSNO Hazard classification	Refer to Section 2: Hazard identification

## NZ Inventory of Chemicals (NZIoC) Status

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

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

Not required
Not required
Not required
Not required
100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Germ cell mutagenicity Category 1, Reproductive toxicity Category 1, Specific target organ toxicity Category 1, Serious eye damage Category 1, Hazardous to the aquatic environment Category 4 substances)
100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Germ cell mutagenicity Category 1, Reproductive toxicity Category 1, Specific target organ toxicity Category 1, Serious eye damage Category 1, Hazardous to the aquatic environment Category 4 substances)
Not required
100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Serious eye damage Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Acute toxicity Category 4 or Hazardous to the aquatic environment Category 4 substances)

# **SECTION 16: Other information**

# **Revision information:**

Complete document review.

Document group:	37-9020-1	Version number:	3.00
Issue Date:	10/03/2024	Supersedes date:	29/10/2018

## 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

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date of issue. TO THE EXTENT PERMITTED BY LAW, 3M MAKES NO WARRANTY, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED

TO, ANY IMPLIED WARRANTY, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluates the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. 3M provides information in electronic form as a service to customers. Due to the remote possibility of electronic transfer may have resulted in errors, omissions or alterations in this information; 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from 3M.

3M New Zealand SDS are available at 3M New Zealand Website: http://solutions.3mnz.co.nz



# **Safety Data Sheet**

 $\bigcirc$  2018, 3M Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilising 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

Document group:	37-9016-9	Version number:	1.00
Issue Date:	24/10/2018	Supersedes date:	Initial issue.

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> Impregum<sup>™</sup> Penta<sup>™</sup> Super Quick MB Base

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

#### **Recommended use**

Dental Product, Impression Material

#### **Restrictions on use**

For use only by dental profesionals in approved indications.

# 1.3. Supplier's details

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

#### 1.4. Emergency telephone number

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

# **SECTION 2: Hazard identification**

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996, the Hazardous Substances (Classification) Notice 2017 and Hazardous Substances (Minimum Degrees of Hazard) Notice 2017. Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

#### 2.1. Classification of the substance or mixture

GHS	HSNO
Serious Eye Damage/Irritation: Category 2	6.4A Irritating to the eye
Skin Sensitiser: Category 1	6.5B Skin sensitiser
Acute Aquatic Toxicity: Category 1	9.1A Aquatic toxicity (acute)
Chronic Aquatic Toxicity: Category 2	9.1B Aquatic toxicity (chronic)

#### 2.2. Label elements

# SIGNAL WORD

WARNING!

# Symbols:

Exclamation mark | Environment |

# Pictograms



HAZARD STATEMENTS:	
H320	Causes eye irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

# PRECAUTIONARY STATEMENTS

<b>Prevention:</b> P261 P280E P273 P264B P272A	Avoid breathing dust/fume/gas/mist/vapours/spray. Wear protective gloves. Avoid release to the environment. Wash exposed skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response:	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P321	Specific treatment (see Notes to Physician on this label).
Disposal:	
P501	Dispose of contents/container in accordance with applicable
	local/regional/national/international regulations.

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

Ingredient	CAS Nbr	% by Weight
Polyether	110531-92-5	40 - 60
Glycerides, C14-18	67701-27-3	1 - 20
Dibenzyl toluene	26898-17-9	1 - 20
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	68855-54-9	1 - 20
N-Ethyl-P-Toluenesulphonamide	80-39-7	1 - 10
Lanthanum Trioxide	1312-81-8	1 - 5
Polyethylene-polypropylene glycol	9003-11-6	< 2
1-Dodecylimidazole	4303-67-7	< 1
Titanium dioxide	13463-67-7	< 0.5
Oils, mint, Mentha arvensis piperascens	68917-18-0	< 1

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

## Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

#### Skin contact

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

## Eye contact

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

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

## If swallowed

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

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

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

No special protective actions for fire-fighters are anticipated.

## 5.4. Hazchem code: 2Z

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

## **6.2.** Environmental precautions

#### Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

# **SECTION 7: Handling and storage**

Refer to Section 15 - Controls for more information

#### 7.1. Precautions for safe handling

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Do not get in eyes. 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.

#### 7.3. Certified handler

Not required

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

#### **8.1 Control parameters**

#### **Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Titanium dioxide	13463-67-7	ACGIH	TWA:10 mg/m <sup>3</sup>	A4: Not class. as human carcinogin
Titanium dioxide	13463-67-7	New Zealand WES	TWA(8 hours):10 mg/m3	
Cristobalite	68855-54-9	ACGIH	TWA(respirable	A2: Suspected human
			fraction):0.025 mg/m3	carcin.
Flux calcined diatomaceous earth	68855-54-9	New Zealand	TWA(8 hours):10 mg/m3	
(cristobalite 1 - <10%)		WES		
Silica, crystalline (airborne	68855-54-9	New Zealand	TWA(as respirable dust)(8	Class-subclass 6.7, carc
particles of respirable size)		WES	hours): 0.1 mg/m3	HCA
ACGIH : American Conference of Governme		Hygienists		
AIHA : American Industrial Hygiene Asso				
CMRG : Chemical Manufacturer's Recomm				
New Zealand WES : New Zealand Workpla TWA: Time-Weighted-Average	ace Exposure Sta	nuarus.		
STEL: Short Term Exposure Limit				
ppm: parts per million				
mg/m <sup>3</sup> : milligrams per cubic metre				
CEIL: Ceiling				

#### 8.2. Exposure controls

## 8.2.1. Engineering controls

Use in a well-ventilated area.

## 8.2.2. Personal protective equipment (PPE)

## Eye/face protection

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

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

G 1' 1

#### Skin/hand protection

See Section 7.1 for additional information on skin protection.

**Respiratory protection** 

None required.

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

## 9.1. Information on basic physical and chemical properties

Physical state	Solid.
Specific Physical Form:	Paste
Appearance/Odour	mint odour, blue paste
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 $> 93 \text{ °C} (200 \text{ °F})$
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not classified
Flammable Limits(LEL)	Not applicable.
Flammable Limits(UEL)	Not applicable.
Vapour pressure	No data available.
Vapour density	No data available.
Density	1 - 1.2 g/cm3
Relative density	> 1 [ <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	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Molecular weight	No data available.
Volatile organic compounds (VOC)	No data available.
Percent volatile	No data available.
VOC less H2O & exempt solvents	No data available.

# **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** Strong acids. Strong bases. Strong oxidising agents.

#### 10.6 Hazardous decomposition products

Substance 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. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### Eye contact

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

#### Ingestion

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

## 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
Polyether	Dermal	Professio nal judgeme nt	LD50 Not applicable
Polyether	Ingestion	Rat	LD50 > 2,000 mg/kg
Glycerides, C14-18	Dermal	Rabbit	LD50 > 2,000 mg/kg
Glycerides, C14-18	Ingestion	Rat	LD50 > 2,000 mg/kg
Dibenzyl toluene	Dermal	Rabbit	LD50 > 2,000 mg/kg
Dibenzyl toluene	Ingestion	Rat	LD50 > 10,360 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
N-ETHYL-P-TOLUENESULPHONAMIDE	Dermal	Rabbit	LD50 > 5,000 mg/kg
N-ETHYL-P-TOLUENESULPHONAMIDE	Ingestion	similar compoun ds	LD50 estimated to be 300 - 2,000 mg/kg
LANTHANUM TRIOXIDE	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
LANTHANUM TRIOXIDE	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 5.3 mg/l
LANTHANUM TRIOXIDE	Ingestion	Rat	LD50 > 10,000 mg/kg
Polyethylene-polypropylene glycol	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
Polyethylene-polypropylene glycol	Ingestion	Rat	LD50 5,700 mg/kg
1-Dodecylimidazole	Ingestion	Rat	LD50 641 mg/kg
Oils, mint, Mentha arvensis piperascens	Dermal	Rabbit	LD50 > 5,000 mg/kg
Oils, mint, Mentha arvensis piperascens	Ingestion	Rat	LD50 1,240 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
Polyether	Rabbit	No significant irritation
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	In vitro	No significant irritation
	data	
LANTHANUM TRIOXIDE	Rabbit	No significant irritation
1-Dodecylimidazole	Rabbit	Mild irritant
Oils, mint, Mentha arvensis piperascens	Rabbit	Mild irritant
Titanium dioxide	Rabbit	No significant irritation

# Serious Eye Damage/Irritation

Name	Species	Value
Polyether	Rabbit	Moderate irritant
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Rabbit	Mild irritant
LANTHANUM TRIOXIDE	Rabbit	Mild irritant
1-Dodecylimidazole	In vitro	Severe irritant
	data	
Oils, mint, Mentha arvensis piperascens	In vitro	Severe irritant
	data	
Titanium dioxide	Rabbit	No significant irritation

#### **Skin Sensitisation**

Name	Species	Value
Polyether	Guinea	Not classified
	pig	
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Mouse	Not classified
LANTHANUM TRIOXIDE	Guinea	Not classified
	pig	
1-Dodecylimidazole	Mouse	Sensitising
Oils, mint, Mentha arvensis piperascens	Guinea	Sensitising
	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	Route	Value
Polyether	In Vitro	Not mutagenic
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	In Vitro	Some positive data exist, but the data are not sufficient for classification
1-Dodecylimidazole	In Vitro	Not mutagenic
Titanium dioxide	In Vitro	Not mutagenic
Titanium dioxide	In vivo	Not mutagenic

## Carcinogenicity

Name	Route	Species	Value
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	Inhalation	Human	Carcinogenic.
		and	
		animal	
Titanium dioxide	Ingestion	Multiple	Not carcinogenic
	-	animal	-
		species	
Titanium dioxide	Inhalation	Rat	Carcinogenic.

## **Reproductive Toxicity**

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

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

## 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
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
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.

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

#### Ecotoxic to the aquatic environment.

Acute Aquatic Toxicity: Category 1 (HSNO 9.1A Aquatic toxicity) Chronic Aquatic Toxicity: Category 2 (HSNO 9.1B Aquatic toxicity)

No product test data available.

Material	CAS Number	Organism	Туре	Exposure	Test endpoint	Test result
Polyether	110531-92-5		Data not available or insufficient for classification			
Glycerides, C14-18	67701-27-3	Green algae	Estimated	72 hours	EC50	>100 mg/l
Glycerides, C14-18	67701-27-3	Water flea	Estimated	48 hours	EC50	>100 mg/l
Glycerides, C14-18	67701-27-3	Zebra Fish	Estimated	96 hours	LC50	>100 mg/l
Glycerides, C14-18	67701-27-3	Green algae	Estimated	72 hours	NOEC	>100 mg/l
Glycerides, C14-18	67701-27-3	Water flea	Estimated	21 days	NOEC	>100 mg/l
Dibenzyl toluene	26898-17-9	Water flea	Experimental	48 hours	EC50	>100 mg/l
Dibenzyl toluene	26898-17-9	Zebra Fish	Experimental	96 hours	Lethal Level 50%	>100 mg/l
Dibenzyl toluene	26898-17-9	Diatom	Experimental	72 hours	NOEC	>100 mg/l

D:1	2(000 17.0	Weter Class	<b>F</b>	01 1	NOEC	0.02
Dibenzyl	26898-17-9	Water flea	Experimental	21 days	NOEC	0.03 mg/l
toluene	60055 54 0		D. i. i			
Flux calcined	68855-54-9		Data not			
diatomaceous			available or			
earth			insufficient for			
(cristobalite 1 -			classification			
<10%)						
N-ETHYL-P-	80-39-7	Crustecea other	Estimated	48 hours	EC50	>=1,000 mg/l
TOLUENESU						_
LPHONAMID						
Е						
	80-39-7	Rainbow trout	Estimated	96 hours	LC50	>=80 mg/l
TOLUENESU	00 59 1	itumoow dout	Lotiniatea	y o nouis	Leve	00 mg/1
LPHONAMID						
E						
LANTHANU	1312-81-8	Water flea	Experimental	48 hours	EC50	>100 mg/l
	1312-01-0	water nea	Experimental	48 nours	EC30	~100 mg/1
M TRIOXIDE	1212 01 0			0(1	1.050	> 100 /1
LANTHANU	1312-81-8	Zebra Fish	Experimental	96 hours	LC50	>100 mg/l
M TRIOXIDE		-				
LANTHANU	1312-81-8	Water flea	Experimental	21 days	NOEC	>100 mg/l
M TRIOXIDE						
Polyethylene-	9003-11-6		Data not			
polypropylene			available or			
glycol			insufficient for			
0,1			classification			
1-	4303-67-7	Green Algae	Experimental	72 hours	EC50	0.00557 mg/l
Dodecylimidaz		0	F			8
ole						
1-	4303-67-7	Water flea	Experimental	48 hours	EC50	>100 mg/l
Dodecylimidaz	4505 07 7	Water fied	Experimental	40 110015	LC50	× 100 mg/1
ole						
1-	4303-67-7	Green algae	Experimental	72 hours	Effect	0.0021 mg/l
-	4303-07-7	Green algae	Experimental	72 nours		0.0021 mg/1
Dodecylimidaz					Concentration	
ole					10%	
Titanium	13463-67-7	Diatom	Experimental	72 hours	EC50	>10,000 mg/l
dioxide						
Titanium	13463-67-7	Fathead	Experimental	96 hours	LC50	>100 mg/l
dioxide		minnow				
Titanium	13463-67-7	Water flea	Experimental	48 hours	EC50	>100 mg/l
dioxide						
Titanium	13463-67-7	Diatom	Experimental	72 hours	NOEC	5,600 mg/l
dioxide			-r			,
Oils, mint,	68917-18-0		Data not			
Mentha	0091/-10-0		available or			
arvensis			insufficient for			
piperascens			classification			

# 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Polyether	110531-92-5	Data not			N/A	
		availbl-				
		insufficient				
Glycerides,	67701-27-3	Estimated	28 days	BOD	79 %	OECD 301F -

C14-18		Biodegradation			BOD/ThBOD	Manometric respirometry
Dibenzyl	26898-17-9	Experimental	28 days	BOD	0 %	OECD 301C - MITI
toluene		Biodegradation			BOD/ThBOD	test (I)
Flux calcined diatomaceous earth (cristobalite 1 - <10%)	68855-54-9	Data not availbl- insufficient			N/A	
N-ETHYL-P- TOLUENESU LPHONAMID E	80-39-7	Estimated Biodegradation	28 days	BOD	25 % weight	OECD 301C - MITI test (I)
LANTHANU M TRIOXIDE	1312-81-8	Data not availbl- insufficient			N/A	
Polyethylene- polypropylene glycol	9003-11-6	Data not availbl- insufficient			N/A	
1- Dodecylimidaz ole	4303-67-7	Experimental Biodegradation	28 days	CO2 evolution	2-3 % weight	OECD 301B - Modified sturm or CO2
Titanium dioxide	13463-67-7	Data not availbl- insufficient			N/A	
Oils, mint, Mentha arvensis piperascens	68917-18-0	Data not availbl- insufficient			N/A	

# 12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Polyether	110531-92-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Glycerides, C14-18	67701-27-3	Estimated Bioconcentrati on		Bioaccumulatio n factor	7.4	Other methods
Dibenzyl toluene	26898-17-9	Experimental BCF-Carp	60 days	Bioaccumulatio n factor	23000	OECD 305E - Bioaccumulation flow- through fish test
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
N-ETHYL-P- TOLUENESU LPHONAMID E	80-39-7	Estimated Bioconcentrati on		Log Kow	1.87	Other methods
LANTHANU M TRIOXIDE	1312-81-8	Data not available or insufficient for	N/A	N/A	N/A	N/A

		classification				
Polyethylene- polypropylene glycol	9003-11-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
1- Dodecylimidaz ole	4303-67-7	Estimated Bioconcentrati on		Bioaccumulatio n factor	3090	Estimated: Bioconcentration factor
Titanium dioxide	13463-67-7	Experimental BCF-Carp	42 days	Bioaccumulatio n factor	9.6	Other methods
Oils, mint, Mentha arvensis piperascens	68917-18-0	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

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

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

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

# **SECTION 14: Transport Information**

New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport UN No.: UN3077 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. , ( Dibenzyl toluene ) Class/Division: 9 Sub Risk: Not applicable. Packing Group: III Special Instructions:Not restricted, environmentally hazardous substance exception. Hazchem Code: 2Z IERG: 47

International Air Transport Association (IATA) - Air Transport UN No.: UN3077 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (Dibenzyl toluene) Class/Division: 9 Sub Risk: Not applicable. Packing Group: III Special Instructions:Not restricted, as per Special Provision A197, environmentally hazardous substance exception.

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

UN No.: UN3077

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (Dibenzyl toluene) Class/Division: 9 Sub Risk: Not applicable. Packing Group: III Marine Pollutant: Dibenzyl toluene Special Instructions:Forbidden by this mode of transport, 3M division policy

# **SECTION 15: Regulatory information**

HSNO Approval numberHSR002558Group standard nameDental Products (Subsidiary Hazard) Group Standard 2017HSNO 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 (Hazardous Substances) Regulations 2017

Certified handler	Not required
Location Compliance Certificate	Not required
Hazardous atmosphere zone	Not required
Fire extinguishers	Not required
Emergency response plan	100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a
	HSNO 6.1D, 6.5A, 6.5B, 9.1B or 9.1C substance); or 10,000 L or 10,000 kg
	(for a HSNO 6.6A, 6.8A, 6.9A, 8.3A, 9.1D substance)
Secondary containment	100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a
	HSNO 6.1D, 6.5A, 6.5B, 9.1B or 9.1C substance); or 10,000 L or 10,000 kg
	(for a HSNO 6.6A, 6.8A, 6.9A, 8.3A, 9.1D substance)
Tracking	Not required
Warning signage	100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a
	HSNO 8.3A, 9.1B or 9.1C substance); or 10,000 L or 10,000 kg (for a HSNO
	6.1D or 9.1D substance)

# **SECTION 16: Other information**

# **Revision information:**

Initial issue.

Document group:	37-9016-9	Version number:	1.00
Issue Date:	24/10/2018	Supersedes date:	Initial issue.

#### Key to abbreviations and acronyms

**GHS** means the Globally Harmonised System of Classification and Labelling of Chemicals, 5th revised edition 2013 **HSNO** means Hazardous Substances and New Organisms Act 1996

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date of issue. TO THE EXTENT PERMITTED BY LAW, 3M MAKES NO WARRANTY, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluates the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. 3M provides information in electronic form as a service to customers. Due to the remote possibility of electronic transfer may have resulted in errors, omissions or alterations in this information; 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from 3M.

# 3M New Zealand SDS are available at 3M New Zealand Website: http://solutions.3mnz.co.nz