# Safety Data Sheet



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| **Document group:** | 38-9369-0 | **Version number:** | 1.00 |
| **Issue Date:** | 30/10/2018 | **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™ 69404 / 69405 Impregum Penta Super Quick Medium Body

**Product Identification Numbers**
UU-0091-8974-5 UU-0091-8975-2

**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.

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# Safety Data Sheet



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|---|---|---|---|
| **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™ Impregum™ Penta™ 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 details**

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

**1.4. Emergency telephone number**
24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

## SECTION 2: Hazard identification

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.
Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

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

**Prevention**

| | |
|---|---|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P264 | Wash thoroughly after handling. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P273 | Avoid release to the environment. |
| P280E | Wear protective gloves. |

**Response**

| | |
|---|---|
| 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. |
| P391 | Collect spillage. |

**Disposal**

| | |
|---|---|
| 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 and pentyl diesters, tetrafluoroborates | 2220260-54-6 | 20 - 40 |
| Polyethylene-polypropylene glycol | 9003-11-6 | 10 - 30 |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | 68909-20-6 | 10 - 30 |
| 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**

| Substance | Condition |
|---|---|
| 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:** 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 |
|---|---|---|---|---|
| 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 | ACGIH | TWA(respirable particles):3 mg/m3 | |

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
New Zealand WES : New Zealand Workplace Exposure Standards.
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
ppm: parts per million
$mg/m^3$: milligrams per cubic metre
CEIL: Ceiling

**8.2. Exposure controls**

**8.2.1. Engineering controls**
Use in a well-ventilated area.

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

**Eye/face protection**

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

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

**Skin/hand protection**
See Section 7.1 for additional information on skin protection.

**Respiratory protection**
None required.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| **Physical state** | Solid. |
| **Specific Physical Form:** | Paste |
| **Colour** | Dark Red |
| **Odour** | Slight Acrid |
| **Odour threshold** | *No data available.* |
| **pH** | *No data available.* |
| **Melting point/Freezing point** | *No data available.* |
| **Boiling point/Initial boiling point/Boiling range** | *Not applicable.* |
| **Flash point** | No flash point |
| **Evaporation rate** | *Not applicable.* |
| **Flammability (solid, gas)** | Not classified |
| **Flammable Limits(LEL)** | *Not applicable.* |
| **Flammable Limits(UEL)** | *Not applicable.* |
| **Vapour pressure** | *Not applicable.* |
| **Vapor Density and/or Relative Vapor Density** | *Not applicable.* |
| **Relative density** | 1.1 - 1.4 [*Ref Std:*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 | Condition |
|---|---|
| None known. | |

Refer to Section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

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

**11.1 Information on Toxicological effects**

**Signs and Symptoms of Exposure**

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

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

**Skin contact**
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 | Professional judgement | 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 compounds | LD50 > 2,000 mg/kg |
| Polyethylene-polypropylene glycol | Ingestion | similar compounds | LD50 > 5,000 mg/kg |
| Diatomaceous earth | Dermal | Professional judgement | 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 | Professional judgement | Irritant |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Rabbit | No significant irritation |
| Polyethylene-polypropylene glycol | similar compounds | 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 compounds | 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 pentyl diesters, tetrafluoroborates | In vitro data | Sensitising |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Guinea pig | Not classified |
| Polyethylene-polypropylene glycol | Guinea pig | Not classified |
| Diatomaceous earth | Mouse | Not classified |
| Titanium dioxide | Human and animal | Not classified |
| 2,6-Di-tert-butyl-p-cresol | Human | Not classified |
| Dibenzyltoluene | Guinea pig | Not classified |

**Respiratory Sensitisation**

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

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| 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 and animal | Carcinogenic. |
| Titanium dioxide | Ingestion | Multiple animal | Not carcinogenic |

| | | | |
|---|---|---|---|
| | | 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 | Type | Exposure | Test endpoint | Test result |
|---|---|---|---|---|---|---|
| Sulfonium, [2-carboxy-1-(carboxymethyl)ethyl]dodecylethyl-, mixed Me and pentyl diesters, tetrafluoroborates | 2220260-54-6 | Green algae | Estimated | 72 hours | EC50 | 1.3 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| Diatomaceous earth | 68855-54-9 | Green algae | Experimental | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Diatomaceous earth | 68855-54-9 | Rainbow trout | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| Diatomaceous earth | 68855-54-9 | Water flea | Experimental | 48 hours | No tox obs at lmt of water sol | >100 mg/l |
| Diatomaceous earth | 68855-54-9 | Green algae | Experimental | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Diatomaceous earth | 68855-54-9 | Activated sludge | Experimental | 3 hours | EC50 | >1,000 mg/l |
| Polyethylene-polypropylene glycol | 9003-11-6 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl) propyl ester, hydrolysis products with silica | 68909-20-6 | Algae or other aquatic plants | Estimated | 72 hours | EC50 | >100 mg/l |
| Plasticiser | 82469-79-2 | Green algae | Experimental | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Plasticiser | 82469-79-2 | Rainbow trout | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| Plasticiser | 82469-79-2 | Water flea | Experimental | 48 hours | EC50 | 0.38 mg/l |
| Plasticiser | 82469-79-2 | Fathead minnow | Experimental | 28 days | NOEC | 0.252 mg/l |
| Plasticiser | 82469-79-2 | Green algae | Experimental | 72 hours | No tox obs at lmt of water sol | 100 mg/l |
| 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(Tetramethylene Ether) | 25190-06-1 | Zebra Fish | Experimental | 96 hours | LC50 | 5.9 mg/l |
| Poly(Tetramethylene Ether) | 25190-06-1 | Activated sludge | Experimental | 30 minutes | EC20 | 450 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 |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Activated sludge | Experimental | 3 hours | EC50 | >10,000 mg/l |

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

**12.2. Persistence and degradability**

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

| | | | | | | |
|---|---|---|---|---|---|---|
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl) propyl ester, hydrolysis products with silica | 68909-20-6 | 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/THCO2 evolution | OECD 301B - Modified sturm or CO2 |
| Poly(Tetramethylene Ether) | 25190-06-1 | Experimental Biodegradation | 28 days | BOD | 33 %BOD/ThOD | 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 |
| Dibenzyltoluene | 53585-53-8 | Experimental Biodegradation | 28 days | BOD | 0.5 %BOD/ThOD | 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 | 68909-20-6 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Plasticiser | 82469-79-2 | Hydrolysis product Bioconcentration | | Bioaccumulation factor | 300 | Catalogic™ |
| Plasticiser | 82469-79-2 | Experimental Bioconcentration | | Log Kow | >4 | EC A.8 Partition Coefficient |
| Poly(Tetramethylene Ether) | 25190-06-1 | Modeled Bioconcentration | | Bioaccumulation factor | 6.1 | Catalogic™ |
| Poly(Tetramethylene Ether) | 25190-06-1 | Modeled Bioconcentration | | Log Kow | 5.5 | Episuite™ |

| | | | | | | |
|---|---|---|---|---|---|---|
| Titanium dioxide | 13463-67-7 | Experimental BCF - Fish | 42 days | Bioaccumulation factor | 9.6 | |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Experimental BCF - Fish | 56 days | Bioaccumulation factor | 1277 | OECD305-Bioconcentration |
| Dibenzyltoluene | 53585-53-8 | Experimental BCF - Fish | 56 days | Bioaccumulation factor | 6300 | OECD305-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 l 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**

| | |
|---|---|
| Certified handler | Not required |
| Location Compliance Certificate | Not required |
| Hazardous atmosphere zone | Not required |
| Fire extinguishers | Not required |
| Emergency response plan | 100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Germ cell mutagenicity Category 1, Reproductive toxicity Category 1, Specific target organ toxicity Category 1, Serious eye damage Category 1, Hazardous to the aquatic environment Category 4 substances) |
| Secondary containment | 100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Germ cell mutagenicity Category 1, Reproductive toxicity Category 1, Specific target organ toxicity Category 1, Serious eye damage Category 1, Hazardous to the aquatic environment Category 4 substances) |
| Tracking | Not required |
| Warning signage | 100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Serious eye damage Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Acute toxicity Category 4 or Hazardous to the aquatic environment Category 4 substances) |

## SECTION 16: Other information

**Revision information:**
Complete document review.

| | | | |
|---|---|---|---|
| **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

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# Safety Data Sheet



| | | | |
|---|---|---|---|
| **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™ Impregum™ Penta™ 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**

**Prevention:**

| | |
|---|---|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P280E | Wear protective gloves. |
| P273 | Avoid release to the environment. |
| P264B | Wash exposed skin thoroughly after handling. |
| P272A | 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**

| Substance | Condition |
|---|---|
| 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.

**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/m³ | 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 fraction):0.025 mg/m3 | A2: Suspected human carcin. |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | 68855-54-9 | New Zealand WES | TWA(8 hours):10 mg/m3 | |
| Silica, crystalline (airborne particles of respirable size) | 68855-54-9 | New Zealand WES | TWA(as respirable dust)(8 hours): 0.1 mg/m3 | Class-subclass 6.7, carc HCA |

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
New Zealand WES : New Zealand Workplace Exposure Standards.
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
ppm: parts per million
mg/m³: milligrams per cubic metre
CEIL: Ceiling

**8.2. Exposure controls**

**8.2.1. Engineering controls**
Use in a well-ventilated area.

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

**Eye/face protection**

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

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

**Skin/hand protection**
See Section 7.1 for additional information on skin protection.

**Respiratory protection**
None required.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| **Physical state** | Solid. |
| **Specific Physical Form:** | Paste |
| **Appearance/Odour** | mint odour, blue paste |
| **Odour threshold** | *No data available.* |
| **pH** | *Not applicable.* |
| **Melting point/Freezing point** | *Not applicable.* |
| **Boiling point/Initial boiling point/Boiling range** | *Not applicable.* |
| **Flash point** | Flash point > 93 °C (200 °F) |
| **Evaporation rate** | *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 [*Ref Std:*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 | Condition |
|---|---|
| None known. | |

Refer to Section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

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

**11.1 Information on Toxicological effects**

**Signs and Symptoms of Exposure**

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

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

**Skin contact**
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 | Professional judgement | 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 | Professional judgement | 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 compounds | LD50 estimated to be 300 - 2,000 mg/kg |
| LANTHANUM TRIOXIDE | Dermal | Professional judgement | 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 | Professional judgement | 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 data | No significant irritation |
| 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 data | Severe irritant |
| Oils, mint, Mentha arvensis piperascens | In vitro data | Severe irritant |
| Titanium dioxide | Rabbit | No significant irritation |

**Skin Sensitisation**

| Name | Species | Value |
|---|---|---|
| Polyether | Guinea pig | Not classified |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Mouse | Not classified |
| LANTHANUM TRIOXIDE | Guinea pig | Not classified |
| 1-Dodecylimidazole | Mouse | Sensitising |
| Oils, mint, Mentha arvensis piperascens | Guinea pig | Sensitising |
| 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 |
|---|---|---|
| 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 and animal | Carcinogenic. |
| Titanium dioxide | Ingestion | Multiple animal species | Not carcinogenic |
| 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 | Type | 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 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Dibenzyl toluene | 26898-17-9 | Water flea | Experimental | 21 days | NOEC | 0.03 mg/l |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | 68855-54-9 | | Data not available or insufficient for classification | | | |
| N-ETHYL-P-TOLUENESULPHONAMIDE | 80-39-7 | Crustecea other | Estimated | 48 hours | EC50 | >=1,000 mg/l |
| N-ETHYL-P-TOLUENESULPHONAMIDE | 80-39-7 | Rainbow trout | Estimated | 96 hours | LC50 | >=80 mg/l |
| LANTHANUM TRIOXIDE | 1312-81-8 | Water flea | Experimental | 48 hours | EC50 | >100 mg/l |
| LANTHANUM TRIOXIDE | 1312-81-8 | Zebra Fish | Experimental | 96 hours | LC50 | >100 mg/l |
| LANTHANUM TRIOXIDE | 1312-81-8 | Water flea | Experimental | 21 days | NOEC | >100 mg/l |
| Polyethylene-polypropylene glycol | 9003-11-6 | | Data not available or insufficient for classification | | | |
| 1-Dodecylimidazole | 4303-67-7 | Green Algae | Experimental | 72 hours | EC50 | 0.00557 mg/l |
| 1-Dodecylimidazole | 4303-67-7 | Water flea | Experimental | 48 hours | EC50 | >100 mg/l |
| 1-Dodecylimidazole | 4303-67-7 | Green algae | Experimental | 72 hours | Effect Concentration 10% | 0.0021 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 |
| Oils, mint, Mentha arvensis piperascens | 68917-18-0 | | Data not available or insufficient for classification | | | |

**12.2. Persistence and degradability**

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

| | | | | | | |
|---|---|---|---|---|---|---|
| C14-18 | | Biodegradation | | | BOD/ThBOD | Manometric respirometry |
| Dibenzyl toluene | 26898-17-9 | Experimental Biodegradation | 28 days | BOD | 0 % BOD/ThBOD | OECD 301C - MITI test (I) |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | 68855-54-9 | Data not availbl-insufficient | | | N/A | |
| N-ETHYL-P-TOLUENESULPHONAMIDE | 80-39-7 | Estimated Biodegradation | 28 days | BOD | 25 % weight | OECD 301C - MITI test (I) |
| LANTHANUM TRIOXIDE | 1312-81-8 | Data not availbl-insufficient | | | N/A | |
| Polyethylene-polypropylene glycol | 9003-11-6 | Data not availbl-insufficient | | | N/A | |
| 1-Dodecylimidazole | 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 Bioconcentration | | Bioaccumulation factor | 7.4 | Other methods |
| Dibenzyl toluene | 26898-17-9 | Experimental BCF-Carp | 60 days | Bioaccumulation 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-TOLUENESULPHONAMIDE | 80-39-7 | Estimated Bioconcentration | | Log Kow | 1.87 | Other methods |
| LANTHANUM 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-Dodecylimidazole | 4303-67-7 | Estimated Bioconcentration | | Bioaccumulation factor | 3090 | Estimated: Bioconcentration factor |
| Titanium dioxide | 13463-67-7 | Experimental BCF-Carp | 42 days | Bioaccumulation 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 number | HSR002558 |
| Group standard name | Dental Products (Subsidiary Hazard) Group Standard 2017 |
| 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 (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

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