



Safety Data Sheet

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Document group: 43-5056-7 **Version number:** 1.00
Issue Date: 26/03/2024 **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™ Impregum™ Penta™ Soft Medium Body IntroKit (P31734)

Product Identification Numbers

UU-0098-0395-6

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:

37-4623-7, 43-4351-3, 35-4551-4

One or more components of this KIT is classified as a hazardous substance in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.

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.

Marine Pollutant:Not applicable.

Revision information:

Initial issue.

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| | | | |
|------------------------|------------|-------------------------|------------|
| Document group: | 35-4551-4 | Version number: | 3.00 |
| Issue Date: | 03/01/2023 | Supersedes date: | 19/07/2020 |

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™ Polyether Adhesive (30600) - New Formulation

Product Identification Numbers

UU-0098-0601-7

1.2. Recommended use and restrictions on use

Recommended use

Dental Product, Tray Adhesive

Restrictions on use

For use by dental professionals only.

1.3. Supplier's details

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

1.4. Emergency telephone number

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

SECTION 2: Hazard identification

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

Flammable Liquid: Category 2

Specific Target Organ Toxicity (single exposure): Category 3

2.2. Label elements

SIGNAL WORD

Danger

Symbols:

Flame | Exclamation mark |

Pictograms**HAZARD STATEMENTS:**

H225 Highly flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

PRECAUTIONARY STATEMENTS**Prevention**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical, ventilating and lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

Response

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTRE or doctor/physician if you feel unwell.

P370 + P378 In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

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 |
|--|------------|-------------|
| Ethyl acetate | 141-78-6 | 70 - 80 |
| Hydroxy-Terminated Dimethylsiloxane, Reaction Products with Chlorotrimethylsilane, Hydrochloric Acid, Isopropyl Alcohol, and Sodium Silicate | 68440-70-0 | 40 - 60 |

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. Do not induce vomiting. Get immediate medical attention.

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

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. 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: -3Y

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. 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. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. 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

Contain spill. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety

Data Sheet. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

Refer to Section 15 - Controls for more information

7.1. Precautions for safe handling

Avoid prolonged or repeated skin contact. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Do not get in eyes.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. 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 |
|---------------|----------|-----------------|--|---------------------|
| Ethyl acetate | 141-78-6 | ACGIH | TWA:400 ppm | |
| Ethyl acetate | 141-78-6 | New Zealand WES | TWA(8 hours):720 mg/m ³ (200 ppm) | |

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 | Liquid. |
| Specific Physical Form: | Viscous. |
| Colour | Red |
| Odour | Characteristic Organic solvent |
| Odour threshold | <i>No data available.</i> |
| pH | <i>No data available.</i> |
| Melting point/Freezing point | <i>No data available.</i> |
| Boiling point/Initial boiling point/Boiling range | 76.1 °C |
| Flash point | -3.9 °C [<i>Test Method: Closed Cup</i>] |
| Evaporation rate | <i>No data available.</i> |
| Flammability (solid, gas) | Not applicable. |
| Flammable Limits(LEL) | 1.2 % |
| Flammable Limits(UEL) | 11.5 % |
| Vapour pressure | 17,465.2 Pa |
| Vapor Density and/or Relative Vapor Density | > 1 [<i>Ref Std: AIR=1</i>] |
| Density | ± 0.9 g/cm ³ |
| Relative density | > 0.9 [<i>Ref Std: WATER=1</i>] |
| Water solubility | Nil |
| Solubility- non-water | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Autoignition temperature | <i>No data available.</i> |
| Decomposition temperature | <i>No data available.</i> |
| Viscosity/Kinematic Viscosity | ± 0.25 Pa-s |
| Volatile organic compounds (VOC) | <i>No data available.</i> |
| Percent volatile | <i>No data available.</i> |
| VOC less H ₂ O & exempt solvents | <i>No data available.</i> |
| Molecular weight | <i>No data available.</i> |

SECTION 10: Stability and reactivity**10.1 Reactivity**

This material is considered to be non reactive under normal use conditions

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

Sparks and/or flames.

Heat.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products**Substance**

Carbon monoxide.

Carbon dioxide.

Condition

Oxidation, heat or reaction

Oxidation, heat or reaction

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

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

Skin contact

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

Eye contact

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

Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

Additional Health Effects:**Single exposure may cause target organ effects:**

Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

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 |
| Ethyl acetate | Dermal | Rabbit | LD50 > 18,000 mg/kg |
| Ethyl acetate | Inhalation-Vapor (4 hours) | Rat | LC50 70.5 mg/l |
| Ethyl acetate | Ingestion | Rat | LD50 5,620 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---------------|---------|--------------------|
| Ethyl acetate | Rabbit | Minimal irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---------------|---------|---------------|
| Ethyl acetate | Rabbit | Mild irritant |

Sensitisation:**Skin Sensitisation**

| Name | Species | Value |
|---------------|------------|----------------|
| Ethyl acetate | 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 |
|---------------|----------|---------------|
| Ethyl acetate | In Vitro | Not mutagenic |
| Ethyl acetate | In vivo | Not mutagenic |

Carcinogenicity

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

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**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---------------|------------|-----------------------------------|--|---------|---------------------|-------------------|
| Ethyl acetate | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Ethyl acetate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Ethyl acetate | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---------------|------------|--|----------------|---------|-----------------------|-------------------|
| Ethyl acetate | Inhalation | endocrine system liver nervous system | Not classified | Rat | NOAEL 0.043 mg/l | 90 days |
| Ethyl acetate | Inhalation | hematopoietic system | Not classified | Rabbit | LOAEL 16 mg/l | 40 days |
| Ethyl acetate | Ingestion | hematopoietic system liver kidney and/or bladder | Not classified | Rat | NOAEL 3,600 mg/kg/day | 90 days |

Aspiration Hazard

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

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

SECTION 12: Ecological information

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

12.1. Toxicity

No product test data available.

| Material | CAS Number | Organism | Type | Exposure | Test endpoint | Test result |
|--|------------|--------------|---|----------|---------------|-------------|
| Ethyl acetate | 141-78-6 | Bacteria | Experimental | 18 hours | EC10 | 2,900 mg/l |
| Ethyl acetate | 141-78-6 | Fish | Experimental | 96 hours | LC50 | 212.5 mg/l |
| Ethyl acetate | 141-78-6 | Invertebrate | Experimental | 48 hours | EC50 | 165 mg/l |
| Ethyl acetate | 141-78-6 | Green algae | Experimental | 72 hours | NOEC | 100 mg/l |
| Ethyl acetate | 141-78-6 | Water flea | Experimental | 21 days | NOEC | 2.4 mg/l |
| Hydroxy-Terminated Dimethylsiloxane, Reaction Products with Chlorotrimethylsilane, Hydrochloric Acid, Isopropyl Alcohol, and Sodium Silicate | 68440-70-0 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |

12.2. Persistence and degradability

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|--|------------|-----------------------------------|----------|-------------------------------|-------------------------------|---------------------------|
| Ethyl acetate | 141-78-6 | Experimental Biodegradation | 14 days | BOD | 94 %BOD/ThOD | OECD 301C - MITI test (I) |
| Ethyl acetate | 141-78-6 | Experimental Photolysis | | Photolytic half-life (in air) | 20.0 days (t _{1/2}) | |
| Hydroxy-Terminated Dimethylsiloxane, Reaction Products with Chlorotrimethylsilane, Hydrochloric Acid, Isopropyl Alcohol, and Sodium Silicate | 68440-70-0 | Data not available - insufficient | N/A | N/A | N/A | N/A |

12.3 : Bioaccumulative potential

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|--|------------|---|----------|------------|-------------|----------|
| Ethyl acetate | 141-78-6 | Experimental Bioconcentration | | Log Kow | 0.68 | |
| Hydroxy-Terminated Dimethylsiloxane, Reaction Products with Chlorotrimethylsilane, Hydrochloric Acid, Isopropyl Alcohol, and Sodium Silicate | 68440-70-0 | 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.

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.: UN1133

Proper Shipping Name: ADHESIVES

Class/Division: 3

Sub Risk: Not applicable.

Packing Group: II

Hazchem Code: -3Y

IERG: 14

International Air Transport Association (IATA) - Air Transport

UN No.: UN1133

Proper Shipping Name: ADHESIVES

Class/Division: 3

Sub Risk: Not applicable.

Packing Group: II

Special Instructions: Dangerous goods in Excepted Quantities, Class 3

International Maritime Dangerous Goods Code (IMDG) - Marine Transport

UN No.: UN1133

Proper Shipping Name: ADHESIVES

Class/Division: 3

Sub Risk: Not applicable.

Packing Group: II

Marine Pollutant: Not applicable.

Special Instructions: Forbidden by this mode of transport

SECTION 15: Regulatory information

HSNO Approval number HSR002556
 Group standard name Dental Products (Flammable) 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 | 100 L (closed containers greater than 5 L) 250 L (closed containers up to and including 5 L) 50 L (open containers) |
| Hazardous atmosphere zone | 100 L (closed containers) 25 L (decanting) 5 L (open occasionally) 1 L (open containers in continuous use) |
| Fire extinguishers | Two required for 250 L |
| Emergency response plan | 100 L (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L (for all other substances) |
| Secondary containment | 100 L (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L (for all other substances) |
| Tracking | Not required |
| Warning signage | 100 L (for Hazardous to the aquatic environment Category 1 substances); or 250 L (for all other substances) |

SECTION 16: Other information**Revision information:**

Complete document review.

| | | | |
|------------------------|------------|-------------------------|------------|
| Document group: | 35-4551-4 | Version number: | 3.00 |
| Issue Date: | 03/01/2023 | Supersedes date: | 19/07/2020 |

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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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.

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|------------------------|------------|-------------------------|----------------|
| Document group: | 37-4623-7 | Version number: | 1.00 |
| Issue Date: | 26/03/2024 | 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 Soft Medium Body Catalyst

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 sensitisation: Category 1

Reproductive Toxicity: Category 2

Specific target organ toxicity – repeated exposure: Category 1

Hazardous to the aquatic environment chronic: Category 3

2.2. Label elements

SIGNAL WORD

Danger

Symbols:

Exclamation mark |Health Hazard |

Pictograms



HAZARD STATEMENTS:

- H317 May cause an allergic skin reaction.
- H361 Suspected of damaging fertility or the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure: blood or blood-forming organs.
- H373 May cause damage to organs through prolonged or repeated exposure: respiratory system | sensory organs.
- H412 Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- 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.
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P314 Get medical advice/attention if you feel unwell.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage

- P405 Store locked up.

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 |
|--|------------|-------------|
| Citric ester | 77-90-7 | 30 - 50 |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | 68909-20-6 | 10 - 30 |
| Sulphonium salt | 72140-65-9 | 10 - 30 |

3M™ Impregum Penta Soft Medium Body Catalyst

| | | |
|---|------------|--------|
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | 68855-54-9 | 1 - 20 |
| Polyethylene-polypropylene glycol | 9003-11-6 | 1 - 10 |
| 1-Naphthalenesulfonic acid, 4-hydroxy-3-[(4-sulfo-1-naphthalenyl)azo]-, aluminum salt (3:2) | 84041-67-8 | < 1 |
| Laurylmercaptobutyronitrile | 93918-85-5 | < 0.5 |

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

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

Skin contact

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

Eye contact

No need for first aid is anticipated. 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

Carbon monoxide.
Carbon dioxide.
Irritant vapours or gases.

Condition

During combustion.
During combustion.
During combustion.

5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

5.4. Hazchem code: Not applicable.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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 handle until all safety precautions have been read and understood. 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. Use personal protective equipment (eg. gloves, respirators...) as required. 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 |
|-------------------------------|----------------|--------------------|---|------------------------------------|
| 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 | |
| Aluminum, insoluble compounds | 84041-67-8 | ACGIH | TWA(respirable fraction):1 mg/m3 | A4: Not class. as human carcinogin |
| Aluminium, soluble salts | 84041-67-8 | New Zealand WES | TWA(as Al)(8 hours):5 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/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 |
| Colour | Dark Red |
| Odour | Slight Acrid |
| Odour threshold | <i>No data available.</i> |
| pH | <i>No data available.</i> |
| Melting point/Freezing point | <i>No data available.</i> |
| Boiling point/Initial boiling point/Boiling range | <i>Not applicable.</i> |
| Flash point | No flash point |
| Evaporation rate | <i>Not applicable.</i> |
| Flammability (solid, gas) | Not classified |
| Flammable Limits(LEL) | <i>Not applicable.</i> |
| Flammable Limits(UEL) | <i>Not applicable.</i> |
| Vapour pressure | <i>Not applicable.</i> |
| Vapor Density and/or Relative Vapor Density | <i>Not applicable.</i> |
| Density | <i>No data available.</i> |
| Relative density | 1.1 - 1.4 [Ref Std: WATER=1] |
| Water solubility | Negligible |
| Solubility- non-water | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Autoignition temperature | <i>No data available.</i> |
| Decomposition temperature | <i>No data available.</i> |
| Viscosity/Kinematic Viscosity | <i>No data available.</i> |
| Volatile organic compounds (VOC) | <i>Not applicable.</i> |
| Percent volatile | <i>Not applicable.</i> |
| VOC less H2O & exempt solvents | <i>Not applicable.</i> |

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

Stable.

10.3 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

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known. | |

Refer to Section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation

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

Skin contact

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. 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

May be harmful if swallowed.

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:

Ocular effects: Signs/symptoms may include blurred or significantly impaired vision. Bone marrow effects:

Signs/symptoms may include generalised weakness, pallor of the skin, fatty infiltration of the bone marrow, decreases in the numbers of circulating blood cells, increased susceptibility to infection. Respiratory effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish coloured skin (cyanosis), sputum production, changes in lung function tests, and respiratory failure.

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

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 >2,000 - =5,000 mg/kg |
| Citric ester | Ingestion | Rat | LD50 > 31,500 mg/kg |
| Citric ester | Dermal | similar health hazards | LD50 estimated to be > 5,000 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 |
| Sulphonium salt | Dermal | Rat | LD50 > 2,000 mg/kg |
| Sulphonium salt | Ingestion | Rat | LD50 300-2,000 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 |
| Polyethylene-polypropylene glycol | Dermal | similar compounds | LD50 > 2,000 mg/kg |
| Polyethylene-polypropylene glycol | Ingestion | similar compounds | LD50 > 5,000 mg/kg |
| 1-Naphthalenesulfonic acid, 4-hydroxy-3-[(4-sulfo-1-naphthalenyl)azo]-, aluminum salt (3:2) | Dermal | similar compounds | LD50 > 2,000 mg/kg |
| 1-Naphthalenesulfonic acid, 4-hydroxy-3-[(4-sulfo-1-naphthalenyl)azo]-, aluminum salt (3:2) | Ingestion | similar compounds | LD50 > 2,000 mg/kg |
| Laurylmercaptobutyronitrile | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Laurylmercaptobutyronitrile | Ingestion | Rat | LD50 > 2,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--|---------|---------------------------|
| Citric ester | Rabbit | No significant irritation |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Rabbit | No significant irritation |
| Sulphonium salt | Rabbit | Mild irritant |

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| | | |
|---|-------------------|---------------------------|
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | In vitro data | No significant irritation |
| Polyethylene-polypropylene glycol | similar compounds | No significant irritation |
| 1-Naphthalenesulfonic acid, 4-hydroxy-3-[(4-sulfo-1-naphthalenyl)azo]-, aluminum salt (3:2) | similar compounds | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|-------------------|---------------------------|
| Citric ester | Rabbit | Mild irritant |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Rabbit | No significant irritation |
| Sulphonium salt | Rabbit | Mild irritant |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Rabbit | Mild irritant |
| Polyethylene-polypropylene glycol | similar compounds | No significant irritation |
| 1-Naphthalenesulfonic acid, 4-hydroxy-3-[(4-sulfo-1-naphthalenyl)azo]-, aluminum salt (3:2) | similar compounds | No significant irritation |

Sensitisation:**Skin Sensitisation**

| Name | Species | Value |
|--|------------|----------------|
| Citric ester | Guinea pig | Not classified |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Guinea pig | Not classified |
| Sulphonium salt | Mouse | Sensitising |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Mouse | Not classified |
| Polyethylene-polypropylene glycol | 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 |
|--|----------|--|
| Citric ester | In Vitro | Not mutagenic |
| Citric ester | In vivo | Not mutagenic |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | In Vitro | Not mutagenic |
| Sulphonium salt | 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 |
| Polyethylene-polypropylene glycol | In Vitro | Not mutagenic |
| 1-Naphthalenesulfonic acid, 4-hydroxy-3-[(4-sulfo-1-naphthalenyl)azo]-, aluminum salt (3:2) | In Vitro | Not mutagenic |
| Laurylmercaptobutyronitrile | In Vitro | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|--|------------|------------------|------------------|
| Citric ester | Ingestion | Rat | Not carcinogenic |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Inhalation | Human and animal | Carcinogenic. |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|--|-----------|--|---------|-----------------------|--------------------------|
| Citric ester | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | 2 generation |
| Citric ester | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 2 generation |
| Citric ester | Ingestion | Not classified for development | Rat | NOAEL 100 mg/kg/day | 2 generation |
| 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 |
| Sulphonium salt | Ingestion | Not classified for development | Rat | NOAEL 100 mg/kg/day | premating into lactation |
| Sulphonium salt | Ingestion | Toxic to female reproduction | Rat | NOAEL 30 mg/kg/day | premating into lactation |
| Sulphonium salt | Ingestion | Toxic to male reproduction | Rat | NOAEL 30 mg/kg/day | 30 days |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|-----------------|-----------|--------------------|----------------|---------|-----------------|-------------------|
| Sulphonium salt | Ingestion | respiratory system | Not classified | Rat | NOAEL 300 mg/kg | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|--|------------|---|--|---------|-----------------------|-------------------|
| Citric ester | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 2 years |
| Citric ester | Ingestion | immune system respiratory system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| Citric ester | Ingestion | heart endocrine system hematopoietic system nervous system eyes kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 2 years |
| 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 |

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|--|------------|--|---|-------|-----------------------|-----------------------|
| Sulphonium salt | Ingestion | bone marrow | Causes damage to organs through prolonged or repeated exposure | Rat | NOAEL 10 mg/kg/day | 30 days |
| Sulphonium salt | Ingestion | respiratory system | May cause damage to organs through prolonged or repeated exposure | Rat | NOAEL 30 mg/kg/day | 30 days |
| Sulphonium salt | Ingestion | eyes | May cause damage to organs through prolonged or repeated exposure | Rat | NOAEL 100 mg/kg/day | 30 days |
| Sulphonium salt | Ingestion | hematopoietic system liver immune system kidney and/or bladder | Not classified | Rat | NOAEL 300 mg/kg/day | 30 days |
| Sulphonium salt | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 30 mg/kg/day | 30 days |
| Sulphonium salt | Ingestion | auditory system heart skin endocrine system bone, teeth, nails, and/or hair muscles nervous system vascular system | Not classified | Rat | NOAEL 300 mg/kg/day | 30 days |
| 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 |

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 2

Chronic Aquatic Toxicity: Category 3

No product test data available.

| Material | CAS Number | Organism | Type | Exposure | Test endpoint | Test result |
|--------------|------------|----------------|--------------|----------|---------------|-------------|
| Citric ester | 77-90-7 | Bluegill | Experimental | 96 hours | LC50 | 38 mg/l |
| Citric ester | 77-90-7 | Green algae | Experimental | 72 hours | ErC50 | 74.4 mg/l |
| Citric ester | 77-90-7 | Mummichog | Experimental | 96 hours | LC50 | 59 mg/l |
| Citric ester | 77-90-7 | Water flea | Experimental | 48 hours | EC50 | 7.82 mg/l |
| Citric ester | 77-90-7 | Fathead minnow | Experimental | 7 days | NOEC | 0.355 mg/l |
| Citric ester | 77-90-7 | Green algae | Experimental | 72 hours | NOEC | 0.109 mg/l |

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| | | | | | | |
|---|------------|-------------------------------|---|----------|--------------------------------|-------------|
| Citric ester | 77-90-7 | Water flea | Experimental | 21 days | NOEC | >=1.11 mg/l |
| Citric ester | 77-90-7 | Activated sludge | Experimental | 3 hours | EC10 | >1,000 mg/l |
| 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 |
| Sulphonium salt | 72140-65-9 | Green algae | Analogous Compound | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Sulphonium salt | 72140-65-9 | Water flea | Analogous Compound | 48 hours | No tox obs at lmt of water sol | >100 mg/l |
| Sulphonium salt | 72140-65-9 | Zebra Fish | Analogous Compound | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| Sulphonium salt | 72140-65-9 | Activated sludge | Experimental | 3 hours | EC50 | >1,000 mg/l |
| Sulphonium salt | 72140-65-9 | Green algae | Analogous Compound | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | 68855-54-9 | Green algae | Experimental | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | 68855-54-9 | Rainbow trout | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | 68855-54-9 | Water flea | Experimental | 48 hours | No tox obs at lmt of water sol | >100 mg/l |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | 68855-54-9 | Green algae | Experimental | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | 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 |
| 1-Naphthalenesulfonic acid, 4-hydroxy-3-[(4-sulfo-1- | 84041-67-8 | Green algae | Analogous Compound | 72 hours | ErC50 | 34.823 mg/l |

| | | | | | | |
|---|------------|------------|--------------------|----------|------|------------|
| naphthalenyl)azo]-, aluminum salt (3:2) | | | | | | |
| 1-Naphthalenesulfonic acid, 4-hydroxy-3-[(4-sulfo-1-naphthalenyl)azo]-, aluminum salt (3:2) | 84041-67-8 | Water flea | Analogous Compound | 48 hours | EC50 | 203.2 mg/l |
| 1-Naphthalenesulfonic acid, 4-hydroxy-3-[(4-sulfo-1-naphthalenyl)azo]-, aluminum salt (3:2) | 84041-67-8 | Zebra Fish | Analogous Compound | 96 hours | LC50 | >100 mg/l |
| Laurylmercaptobutyronitrile | 93918-85-5 | Water flea | Experimental | 48 hours | EC50 | >100 mg/l |

12.2. Persistence and degradability

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|---|------------|--|----------|----------------------|------------------------------------|--------------------------------|
| Citric ester | 77-90-7 | Experimental Biodegradation | 28 days | BOD | 16 %BOD/ThOD | OECD 301D - Closed bottle test |
| Citric ester | 77-90-7 | Experimental Aquatic Inherent Biodegrad. | 28 days | BOD | 82 %BOD/ThOD | OECD 302C - Modified MITI (II) |
| Citric ester | 77-90-7 | Experimental Soil Metabolism Aerobic | 42 days | CO2 evolution | >60 %CO2 evolution/THCO2 evolution | 835.3300 Soil Biodeg |
| 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 |
| Sulphonium salt | 72140-65-9 | Hydrolysis product Biodegradation | 28 days | Percent degraded | 52 % degraded | Catalogic™ |
| Sulphonium salt | 72140-65-9 | Experimental Hydrolysis | | Hydrolytic half-life | 2.08 hours (t1/2) | OECD 111 Hydrolysis func of pH |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | 68855-54-9 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Polyethylene-polypropylene | 9003-11-6 | Data not availbl- | N/A | N/A | N/A | N/A |

| | | | | | | |
|---|------------|-----------------------------------|---------|-----|-----------------|--------------------------------|
| glycol | | insufficient | | | | |
| 1-Naphthalenesulfonic acid, 4-hydroxy-3-[(4-sulfo-1-naphthalenyl)azo]-, aluminum salt (3:2) | 84041-67-8 | Analogous Compound Biodegradation | 28 days | BOD | 82.14 %BOD/ThOD | OECD 301D - Closed bottle test |
| Laurylmercaptobutyronitrile | 93918-85-5 | Data not available - insufficient | N/A | N/A | N/A | N/A |

12.3 : Bioaccumulative potential

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|---|------------|---|----------|------------------------|-------------|---------------------------------|
| Citric ester | 77-90-7 | Modeled Bioconcentration | | Bioaccumulation factor | 5.1 | Catalogic™ |
| Citric ester | 77-90-7 | Experimental Bioconcentration | | Log Kow | 4.86 | OECD 117 log Kow HPLC method |
| 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 |
| Sulphonium salt | 72140-65-9 | Experimental Bioconcentration | | Log Kow | ≤0.75 | 830.7550 Part.Coeff Shake Flask |
| Sulphonium salt | 72140-65-9 | Hydrolysis product Bioconcentration | | Log Kow | 6.81 | Episuite™ |
| 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 |
| Polyethylene-polypropylene glycol | 9003-11-6 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 1-Naphthalenesulfonic acid, 4-hydroxy-3-[(4-sulfo-1-naphthalenyl)azo]-, aluminum salt (3:2) | 84041-67-8 | Analogous Compound Bioconcentration | | Log Kow | 2.234 | OECD 117 log Kow HPLC method |
| Laurylmercaptobutyronitrile | 93918-85-5 | Data not available - insufficient | N/A | N/A | N/A | N/A |

| | | | | | | |
|----------------|--|--|--|--|--|--|
| obutyronitrile | | available or insufficient for classification | | | | |
|----------------|--|--|--|--|--|--|

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

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

SECTION 14: Transport Information

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

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

Hazchem Code: Not applicable.

IERG: Not applicable.

International Air Transport Association (IATA) - Air Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

International Maritime Dangerous Goods Code (IMDG) - Marine Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

Marine Pollutant: Not applicable.

SECTION 15: Regulatory information

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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:

Initial issue.

| | | | |
|------------------------|------------|-------------------------|----------------|
| Document group: | 37-4623-7 | Version number: | 1.00 |
| Issue Date: | 26/03/2024 | Supersedes date: | Initial issue. |

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

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| | | | |
|------------------------|------------|-------------------------|----------------|
| Document group: | 43-4351-3 | Version number: | 1.00 |
| Issue Date: | 25/03/2024 | 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™ Soft Medium Body Base

1.2. Recommended use and restrictions on use

Recommended use

Dental Product, Impression Material

Restrictions on use

For use only by dental professionals in approved indications.

1.3. Supplier's details

Address: 3M 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

Eye irritation: Category 2

Skin sensitisation: Category 1

Hazardous to the aquatic environment acute: Category 1

Hazardous to the aquatic environment chronic: Category 2

2.2. Label elements

SIGNAL WORD

Warning

Symbols:

Exclamation mark |Environment |

Pictograms



HAZARD STATEMENTS:

H319 Causes serious 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.
 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.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337 + P313 IF eye irritation persists: 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

All or part of the classification is based on toxicity test data.

SECTION 3: Composition/information on ingredients

| Ingredient | CAS Nbr | % by Weight |
|---|--------------|-------------|
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | 110531-92-5 | 40 - 60 |
| Glycerides, C14-18 | 67701-27-3 | 1 - 20 |
| Oxirane, Polymer with Tetrahydrofuran, Diacetate | 91825-26-2 | 1 - 20 |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | 1215036-04-6 | 1 - 10 |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | 68855-54-9 | < 10 |
| 1-Dodecylimidazole | 4303-67-7 | < 1 |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | 6485-40-1 | < 0.2 |
| Dibenzyltoluene | 53585-53-8 | < 0.1 |
| Stearyldimethylamine | 124-28-7 | < 0.02 |

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

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: 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 |
|-------------------------|----------------|--------------------|--|----------------------------|
| Dust, inert or nuisance | 68855-54-9 | New Zealand WES | TWA(as respirable dust)(8 hours):3 mg/m ³ ;TWA(as inhalable dust)(8 hours):10 mg/m ³ | |

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 |
| Colour | Purple |
| Odour | Minty |
| Odour threshold | <i>No data available.</i> |
| pH | <i>No data available.</i> |
| Melting point/Freezing point | <i>No data available.</i> |
| Boiling point/Initial boiling point/Boiling range | <i>Not applicable.</i> |
| Flash point | Flash point > 93 °C (200 °F) |
| Evaporation rate | <i>Not applicable.</i> |
| Flammability (solid, gas) | Not classified |
| Flammable Limits(LEL) | <i>Not applicable.</i> |
| Flammable Limits(UEL) | <i>Not applicable.</i> |
| Vapour pressure | <i>Not applicable.</i> |
| Vapor Density and/or Relative Vapor Density | <i>Not applicable.</i> |
| Density | <i>No data available.</i> |
| Relative density | 1 - 1.2 [Ref Std: WATER=1] |
| Water solubility | Nil |
| Solubility- non-water | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Autoignition temperature | <i>No data available.</i> |
| Decomposition temperature | <i>No data available.</i> |
| Viscosity/Kinematic Viscosity | <i>No data available.</i> |
| Volatile organic compounds (VOC) | <i>Not applicable.</i> |
| Percent volatile | <i>Not applicable.</i> |
| VOC less H ₂ O & exempt solvents | <i>Not applicable.</i> |
| Molecular weight | <i>Not applicable.</i> |

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

Stable.

10.3 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

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 |

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| | | | |
|---|--------------------------------|------------------------|--|
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | Dermal | Professional judgement | LD50 Not applicable |
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Glycerides, C14-18 | Dermal | similar compounds | LD50 > 2,000 mg/kg |
| Glycerides, C14-18 | Inhalation-Dust/Mist (4 hours) | similar compounds | LC50 > 2.8 mg/l |
| Glycerides, C14-18 | Ingestion | similar compounds | LD50 > 2,000 mg/kg |
| Oxirane, Polymer with Tetrahydrofuran, Diacetate | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| Oxirane, Polymer with Tetrahydrofuran, Diacetate | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | Ingestion | Rat | LD50 > 2,300 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 |
| 1-Dodecylimidazole | Ingestion | Rat | LD50 641 mg/kg |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | Dermal | Rat | LD50 > 2,000 mg/kg |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | Ingestion | Rat | LD50 4,900 mg/kg |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | Inhalation-Dust/Mist (4 hours) | similar compounds | LC50 > 5.66 mg/l |
| 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 |
|---|-------------------|---------------------------|
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | Rabbit | No significant irritation |
| Glycerides, C14-18 | similar compounds | No significant irritation |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | Rabbit | No significant irritation |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | In vitro data | No significant irritation |
| 1-Dodecylimidazole | Rabbit | Mild irritant |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | Human and animal | No significant irritation |
| Dibenzyltoluene | Rabbit | Mild irritant |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---|---------|-------------------|
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | Rabbit | Moderate irritant |

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| | | |
|--|-------------------|---------------------------|
| Glycerides, C14-18 | similar compounds | No significant irritation |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | Rabbit | Mild irritant |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Rabbit | Mild irritant |
| 1-Dodecylimidazole | In vitro data | Severe irritant |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | Rabbit | No significant irritation |
| Dibenzyltoluene | Rabbit | No significant irritation |

Sensitisation:
Skin Sensitisation

| Name | Species | Value |
|---|-------------------------|----------------|
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | Guinea pig | Not classified |
| Glycerides, C14-18 | similar compounds | Not classified |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | Mouse | Not classified |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Mouse | Not classified |
| 1-Dodecylimidazole | Mouse | Sensitising |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | Multiple animal species | Sensitising |
| 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 |
|---|----------|--|
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | In Vitro | Not mutagenic |
| Glycerides, C14-18 | In Vitro | Not mutagenic |
| Oxirane, Polymer with Tetrahydrofuran, Diacetate | In Vitro | Not mutagenic |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | In Vitro | Not mutagenic |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | In vivo | 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 |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | In Vitro | Not mutagenic |
| Dibenzyltoluene | In Vitro | Not mutagenic |
| Dibenzyltoluene | In vivo | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|--|------------|------------------|---------------|
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Inhalation | Human and animal | Carcinogenic. |

Reproductive Toxicity
Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|--|-----------|--------------------------------|---------|-----------------------|-------------------|
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during gestation |
| 2-Cyclohexen-1-one, 2-methyl-5-(1- | Ingestion | Not classified for development | Rat | NOAEL 250 | during |

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| | | | | | |
|--|-----------|------------------------------|--------|-------------------------------------|-----------------------------|
| methylethenyl)-, (R)- Dibenzyltoluene | Ingestion | Toxic to male reproduction | Rat | mg/kg/day NOAEL 250 mg/kg/day | gestation 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 |
|--|------------|--|--|---------|-----------------------------|-----------------------|
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | Ingestion | hematopoietic system nervous system eyes kidney and/or bladder | Not classified | Rat | NOAEL 2,000 mg/kg/day | 13 weeks |
| 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 |
| 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.

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Acute Aquatic Toxicity: Category 1

Chronic Aquatic Toxicity: Category 2

No product test data available.

| Material | CAS Number | Organism | Type | Exposure | Test endpoint | Test result |
|---|--------------|-------------|---|----------|--------------------------------|-------------|
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | 110531-92-5 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| 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 |
| Oxirane, Polymer with Tetrahydrofuran, Diacetate | 91825-26-2 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | 1215036-04-6 | Green algae | Experimental | 72 hours | ErC50 | 172.2 mg/l |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | 1215036-04-6 | Water flea | Experimental | 48 hours | EC50 | 49 mg/l |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | 1215036-04-6 | Zebra Fish | Experimental | 96 hours | LC50 | >100 mg/l |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | 1215036-04-6 | Green algae | Experimental | 72 hours | ErC10 | 11.3 mg/l |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | 1215036-04-6 | Water flea | Experimental | 21 days | NOEC | >1 mg/l |
| Flux calcined diatomaceous earth | 68855-54-9 | Green algae | Experimental | 72 hours | No tox obs at lmt of water sol | >100 mg/l |

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| | | | | | | |
|--|------------|------------------|--------------|------------|--------------------------------|--------------|
| (cristobalite 1 - <10%) | | | | | | |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | 68855-54-9 | Rainbow trout | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | 68855-54-9 | Water flea | Experimental | 48 hours | No tox obs at lmt of water sol | >100 mg/l |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | 68855-54-9 | Green algae | Experimental | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | 68855-54-9 | Activated sludge | Experimental | 3 hours | EC50 | >1,000 mg/l |
| 1-Dodecylimidazole | 4303-67-7 | Green algae | Experimental | 72 hours | ErC50 | 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 | ErC10 | 0.0021 mg/l |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | 6485-40-1 | Green algae | Experimental | 72 hours | EC50 | 19 mg/l |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | 6485-40-1 | Rainbow trout | Experimental | 96 hours | LC50 | 6.1 mg/l |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | 6485-40-1 | Water flea | Experimental | 48 hours | EC50 | 38 mg/l |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | 6485-40-1 | Green algae | Experimental | 72 hours | NOEC | 4.3 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 |

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|-----------------------|------------|------------------|--------------------|----------|--------------------------------|-----------------------|
| 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 |
| Stearyl dimethylamine | 124-28-7 | Water flea | Analogous Compound | 48 hours | EC50 | 0.188 mg/l |
| Stearyl dimethylamine | 124-28-7 | Green algae | Experimental | 72 hours | EC50 | 0.0141 mg/l |
| Stearyl dimethylamine | 124-28-7 | Rainbow trout | Experimental | 96 hours | LC50 | 0.18 mg/l |
| Stearyl dimethylamine | 124-28-7 | Water flea | Analogous Compound | 21 days | NOEC | 0.1 mg/l |
| Stearyl dimethylamine | 124-28-7 | Green algae | Experimental | 72 hours | EC10 | 0.00594 mg/l |
| Stearyl dimethylamine | 124-28-7 | Activated sludge | Analogous Compound | 3 hours | EC50 | 38 mg/l |
| Stearyl dimethylamine | 124-28-7 | Rape | Analogous Compound | 21 days | NOEC | 10 mg/kg (Dry Weight) |

12.2. Persistence and degradability

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|---|--------------|-------------------------------|----------|---------------|------------------------------------|-------------------------------------|
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | 110531-92-5 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Glycerides, C14-18 | 67701-27-3 | Estimated Biodegradation | 28 days | BOD | 79 %BOD/ThO D | OECD 301F - Manometric respirometry |
| Oxirane, Polymer with Tetrahydrofuran, Diacetate | 91825-26-2 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | 1215036-04-6 | Experimental Biodegradation | 28 days | CO2 evolution | 83 %CO2 evolution/THC O2 evolution | OECD 301B - Modified sturm or CO2 |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | 68855-54-9 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| 1-Dodecylimidaz | 4303-67-7 | Experimental Biodegradation | 28 days | CO2 evolution | 2-3 %CO2 evolution/THC | OECD 301B - Modified sturm or CO2 |

| | | | | | | |
|---|------------|--|---------|-------------------------------|-------------------------------|-------------------------------------|
| ole | | | | | O2 evolution | |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | 6485-40-1 | Experimental Biodegradation | 28 days | BOD | 90 %BOD/ThOD | OECD 301F - Manometric respirometry |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | 6485-40-1 | Estimated Photolysis | | Photolytic half-life (in air) | 2.7 hours (t _{1/2}) | |
| Dibenzyltoluene | 53585-53-8 | Experimental Biodegradation | 28 days | BOD | 0.5 %BOD/ThOD | OECD 301D - Closed bottle test |
| Stearaldimethylamine | 124-28-7 | Experimental Biodegradation | 28 days | BOD | 68 %BOD/ThOD | OECD 301D - Closed bottle test |
| Stearaldimethylamine | 124-28-7 | Experimental Aquatic Inherent Biodegrad. | 28 days | Percent degraded | 56 %BOD/ThOD | OECD 302C - Modified MITI (II) |
| Stearaldimethylamine | 124-28-7 | Analogous Compound Biodegradation | 6 days | Percent degraded | > 99.6 % degraded | OECD 303A - Simulated Aerobic |
| Stearaldimethylamine | 124-28-7 | Analogous Compound Biodegradation | 62 days | Percent degraded | 13.7 % degraded | OECD 307 Aero Anaer Trans soil |

12.3 : Bioaccumulative potential

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|---|--------------|---|----------|------------------------|-------------|------------------------------|
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | 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 | |
| Oxirane, Polymer with Tetrahydrofuran, Diacetate | 91825-26-2 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Fatty acids, C8-10, diesters with 1,4:3,6-dianhydro-D-glucitol | 1215036-04-6 | Experimental Bioconcentration | | Log Kow | >2.9 | EC A.8 Partition Coefficient |
| 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 |
| 1-Dodecylimidazole | 4303-67-7 | Modeled Bioconcentration | | Bioaccumulation factor | 3090 | Catalogic™ |

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|---|------------|-------------------------------|---------|------------------------|------|--------------------------|
| ole | | on | | | | |
| 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- | 6485-40-1 | Experimental Bioconcentration | | Log Kow | 2.74 | |
| Dibenzyltoluene | 53585-53-8 | Experimental BCF - Fish | 56 days | Bioaccumulation factor | 6300 | OECD305-Bioconcentration |
| Stearyldimethylamine | 124-28-7 | Modeled Bioconcentration | | Bioaccumulation factor | 7.4 | Catalogic™ |
| Stearyldimethylamine | 124-28-7 | Estimated Bioconcentration | | Log Kow | 5.1 | |

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. , (Laurylimidazole, Stabilizer)

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. , (Laurylimidazole, Stabilizer)

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. , (Laurylimidazole, Stabilizer)

Class/Division: 9

Sub Risk: Not applicable.

Packing Group: III

Marine Pollutant: Laurylimidazole, Stabilizer

Special Instructions: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:

Initial issue.

| | | | |
|------------------------|------------|-------------------------|----------------|
| Document group: | 43-4351-3 | Version number: | 1.00 |
| Issue Date: | 25/03/2024 | Supersedes date: | Initial issue. |

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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