Safety Data Sheet

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Issue Date:	31/01/2023	**Supersedes date:**	25/06/2018

This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

SECTION 1: Identification

1.1. Product identifier
3M™ Cavit™ (44351, 44030)

Product Identification Numbers
70-2011-0462-0

1.2. Recommended use and restrictions on use

Recommended use
Dental product, Temporary dental restorative

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
Acute Aquatic Toxicity: Category 1
Chronic Aquatic Toxicity: Category 1

2.2. Label elements
SIGNAL WORD
Warning

Symbols:
Environment |

Pictograms

HAZARD STATEMENTS:

H410	Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention

P273	Avoid release to the environment.

Response

P391	Collect spillage.

Disposal

P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3. Other hazards
A similar mixture has been tested for eye damage/irritation and the test results do not meet the criteria for classification.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
Zinc oxide	1314-13-2	30 - 50
Sulfuric acid, calcium salt, hydrate (2:2:1)	10034-76-1	10 - 30
2,2'-[Ethane-1,2-diylbis(oxy)]bisethyl diacetate	111-21-7	10 - 20
Zinc sulphate	7733-02-0	5 - 10
Poly(vinyl acetate)	9003-20-7	1 - 5

SECTION 4: First aid measures

4.1. Description of first aid measures

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

Skin contact
Wash with soap and water. If signs/symptoms develop, get medical attention.

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

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

4.2. Most important symptoms and effects, both acute and delayed
No critical symptoms or effects. See Section 11.1, information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required
Not applicable

SECTION 5: Fire-fighting measures

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

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Irritant vapours or gases.	During combustion.

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

5.4. Hazchem code: Not applicable.

SECTION 6: Accidental release measures

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

6.2. Environmental precautions
Avoid release to the environment.

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

SECTION 7: Handling and storage

Refer to Section 15 - Controls for more information

7.1. Precautions for safe handling
Avoid prolonged or repeated skin contact. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.

7.2. Conditions for safe storage including any incompatibilities
No special storage requirements.

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	10034-76-1	New Zealand WES	TWA(as respirable dust)(8 hours):3 mg/m3;TWA(as inhalable dust)(8 hours):10 mg/m3	
Sulfuric acid, calcium salt (1:1)	10034-76-1	New Zealand WES	TWA(8 hours):10 mg/m3	
Sulfuric acid, calcium salt, hydrate (2:2:1)	10034-76-1	ACGIH	TWA(inhalable fraction):10 mg/m3	
Zinc oxide	1314-13-2	ACGIH	TWA(respirable fraction):2 mg/m3;STEL(respirable fraction):10 mg/m3	
Zinc oxide	1314-13-2	New Zealand WES	TWA(respirable)(8 hours):0.1 mg/m3;TWA(8 hours):2 mg/m3;STEL(respirable)(15 minutes):0.5 mg/m3;STEL(15 minutes):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/m^3: milligrams per cubic metre
CEIL: Ceiling

8.2. Exposure controls

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

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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

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

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

Respiratory protection
None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid.
Specific Physical Form:	Paste
Colour	Pink
Odour	Slight Acetic Acid
Odour threshold	*No data available.*
pH	*Not applicable.*
Melting point/Freezing point	*No data available.*
Boiling point/Initial boiling point/Boiling range	*Not applicable.*
Flash point	No flash point
Evaporation rate	*No data available.*
Flammability (solid, gas)	Not classified
Flammable Limits(LEL)	*Not applicable.*
Flammable Limits(UEL)	*Not applicable.*
Vapour pressure	*Not applicable.*
Vapor Density and/or Relative Vapor Density	*Not applicable.*
Density	2.6 g/cm3 - 3 g/cm3
Relative density	2.6 - 3 [*Ref Std:*WATER=1]
Water solubility	Nil
Solubility- non-water	*No data available.*
Partition coefficient: n-octanol/water	*Not applicable.*
Autoignition temperature	*Not applicable.*
Decomposition temperature	*No data available.*
Viscosity/Kinematic Viscosity	*No data available.*
Volatile organic compounds (VOC)	*Not applicable.*
Percent volatile	*Not applicable.*
VOC less H2O & exempt solvents	*Not applicable.*
Molecular weight	*No data available.*

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
None known.

10.5 Incompatible materials
None known.

10.6 Hazardous decomposition products

Substance	**Condition**
None known.	

Refer to Section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

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

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

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.

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
Zinc oxide	Dermal		LD50 estimated to be > 5,000 mg/kg
Zinc oxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.7 mg/l
Zinc oxide	Ingestion	Rat	LD50 > 5,000 mg/kg
Sulfuric acid, calcium salt, hydrate (2:2:1)	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
Sulfuric acid, calcium salt, hydrate (2:2:1)	Ingestion	similar compounds	LD50 estimated to be > 5,000 mg/kg
2,2'-[Ethane-1,2-diylbis(oxy)]bisethyl diacetate	Dermal	Rabbit	LD50 9,040 mg/kg
2,2'-[Ethane-1,2-diylbis(oxy)]bisethyl diacetate	Ingestion	Rat	LD50 15,594 mg/kg
Zinc sulphate	Dermal	Rat	LD50 > 2,000 mg/kg
Zinc sulphate	Ingestion	Rat	LD50 920 mg/kg
Poly(vinyl acetate)	Dermal		LD50 estimated to be > 5,000 mg/kg
Poly(vinyl acetate)	Ingestion	Rat	LD50 > 9,700 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Zinc oxide	Human and animal	No significant irritation
Zinc sulphate	Rabbit	No significant irritation
Poly(vinyl acetate)	Rabbit	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
Zinc oxide	Rabbit	Mild irritant
Zinc sulphate	Rabbit	Corrosive
Poly(vinyl acetate)	similar health hazards	Moderate irritant

Sensitisation:

Skin Sensitisation

Name	Species	Value
Zinc oxide	Guinea pig	Not classified
Zinc sulphate	Multiple animal species	Not classified
Poly(vinyl acetate)	Human	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
Zinc oxide	In Vitro	Some positive data exist, but the data are not sufficient for classification
Zinc oxide	In vivo	Some positive data exist, but the data are not sufficient for classification
Zinc sulphate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Zinc sulphate	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Zinc sulphate	Ingestion	Mouse	Not carcinogenic
Poly(vinyl acetate)	Not specified.	Multiple animal species	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Zinc oxide	Ingestion	Not classified for reproduction and/or development	Multiple animal species	NOAEL 125 mg/kg/day	premating & during gestation
Zinc sulphate	Ingestion	Not classified for development	Rat	NOAEL 42.5 mg/kg/day	during organogenesis

Zinc sulphate	Ingestion	Not classified for female reproduction	similar compoun ds	NOAEL 7.2 mg zinc/kg/day	
Zinc sulphate	Ingestion	Not classified for male reproduction	Rat	LOAEL 240 mg zinc/kg/day	30 days

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Zinc sulphate	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
Zinc oxide	Ingestion	nervous system	Not classified	Rat	NOAEL 600 mg/kg/day	10 days
Zinc oxide	Ingestion	endocrine system | hematopoietic system | kidney and/or bladder	Not classified	Other	NOAEL 500 mg/kg/day	6 months
Zinc sulphate	Inhalation	heart | respiratory system	Not classified	Rat	NOAEL 100 ug zinc/m3	16 weeks
Zinc sulphate	Ingestion	endocrine system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 53.5 mg zinc/kg/day	13 weeks
Zinc sulphate	Ingestion	hematopoietic system | liver | kidney and/or bladder | heart | gastrointestinal tract | bone, teeth, nails, and/or hair | immune system | muscles | nervous system | respiratory system	Not classified	Rat	NOAEL 564 mg zinc/kg/day	13 weeks

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

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

SECTION 12: Ecological information

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

12.1. Toxicity
Ecotoxic to the aquatic environment.
Acute Aquatic Toxicity: Category 1
Chronic Aquatic Toxicity: Category 1

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Zinc oxide	1314-13-2	Activated sludge	Estimated	3 hours	EC50	6.5 mg/l
Zinc oxide	1314-13-2	Green algae	Estimated	72 hours	EC50	0.052 mg/l
Zinc oxide	1314-13-2	Rainbow trout	Estimated	96 hours	LC50	0.21 mg/l
Zinc oxide	1314-13-2	Water flea	Estimated	48 hours	EC50	0.07 mg/l
Zinc oxide	1314-13-2	Green algae	Estimated	72 hours	NOEC	0.006 mg/l
Zinc oxide	1314-13-2	Water flea	Estimated	7 days	NOEC	0.02 mg/l
Sulfuric acid, calcium salt, hydrate (2:2:1)	10034-76-1	Bluegill	Analogous Compound	96 hours	LC50	>2,980 mg/l
Sulfuric acid, calcium salt, hydrate (2:2:1)	10034-76-1	Diatom	Analogous Compound	96 hours	EC50	3,200 mg/l
Sulfuric acid, calcium salt, hydrate (2:2:1)	10034-76-1	Water flea	Analogous Compound	48 hours	EC50	>1,970 mg/l
Sulfuric acid, calcium salt, hydrate (2:2:1)	10034-76-1	Water flea	Analogous Compound	21 days	NOEC	1,600 mg/l
Sulfuric acid, calcium salt, hydrate (2:2:1)	10034-76-1	Activated sludge	Analogous Compound	3 hours	NOEC	1,000 mg/l
2,2'-[Ethane-1,2-diylbis(oxy)]bisethyl diacetate	111-21-7	Fathead minnow	Experimental	96 hours	LC50	185 mg/l
2,2'-[Ethane-1,2-diylbis(oxy)]bisethyl diacetate	111-21-7	Green algae	Experimental	72 hours	EC50	>100 mg/l
2,2'-[Ethane-1,2-diylbis(oxy)]bisethyl diacetate	111-21-7	Water flea	Experimental	48 hours	EC50	>100 mg/l
2,2'-[Ethane-1,2-diylbis(oxy)]bisethyl diacetate	111-21-7	Green algae	Experimental	72 hours	NOEC	100 mg/l
Zinc sulphate	7733-02-0	Rainbow trout	Estimated	96 hours	LC50	0.42 mg/l
Zinc sulphate	7733-02-0	N/A	Experimental	48 hours	EC50	0.099 mg/l
Zinc sulphate	7733-02-0	Activated sludge	Experimental	3 hours	EC50	12.8 mg/l
Zinc sulphate	7733-02-0	Green algae	Experimental	72 hours	EC50	0.104 mg/l
Zinc sulphate	7733-02-0	Water flea	Experimental	48 hours	EC50	0.15 mg/l
Zinc sulphate	7733-02-0	Diatom	Experimental	72 hours	NOEC	0.05 mg/l
Zinc sulphate	7733-02-0	Green algae	Experimental	72 hours	NOEC	0.012 mg/l
Zinc sulphate	7733-02-0	Water flea	Experimental	7 days	NOEC	0.032 mg/l
Poly(vinyl acetate)	9003-20-7	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
Zinc oxide	1314-13-2	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Sulfuric acid, calcium salt, hydrate (2:2:1)	10034-76-1	Data not availbl-insufficient	N/A	N/A	N/A	N/A
2,2'-[Ethane-1,2-diylbis(oxy)]bisethyl diacetate	111-21-7	Experimental Biodegradation	28 days	BOD	60 %BOD/ThOD	OECD 301C - MITI test (I)
Zinc sulphate	7733-02-0	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Poly(vinyl acetate)	9003-20-7	Data not availbl-insufficient	N/A	N/A	N/A	N/A

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Zinc oxide	1314-13-2	Experimental BCF - Fish	56 days	Bioaccumulation factor	≤217	OECD305-Bioconcentration
Sulfuric acid, calcium salt, hydrate (2:2:1)	10034-76-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2,2'-[Ethane-1,2-diylbis(oxy)]bisethyl diacetate	111-21-7	Experimental Bioconcentration		Log Kow	0.03	
Zinc sulphate	7733-02-0	Experimental BCF - Fish	56 days	Bioaccumulation factor	242	
Poly(vinyl acetate)	9003-20-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

12.4. Mobility in soil
Please contact manufacturer for more details

12.5 Other adverse effects
No information available.

SECTION 13: Disposal considerations

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

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

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

SECTION 14: Transport Information

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

International Air Transport Association (IATA) - Air Transport
UN No.: UN3077
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. , (Zinc oxide)
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. , (Zinc oxide)
Class/Division: 9
Sub Risk: Not applicable.
Packing Group: III
Marine Pollutant: Not applicable.
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:
Complete document review.

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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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