Safety Data Sheet

Document group:	32-7460-2	**Version number:**	2.00
Issue Date:	02/05/2023	**Supersedes date:**	02/05/2023

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™ Cavilon™ Durable Barrier Cream 3353, 3354, 3355, 3391C, 3391G,3392C, 3392G 3392GS

Product Identification Numbers
70-2018-0000-3 UU-0108-8067-0 UU-0108-8489-6 UU-0108-8593-5

1.2. Recommended use and restrictions on use

Recommended use
Topically applied medical barrier cream, Barrier cream for incontinence skin care - skin protectant

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
Serious Eye Damage/Irritation: Category 2

2.2. Label elements
SIGNAL WORD
Warning

Symbols:
Exclamation mark |

Pictograms

HAZARD STATEMENTS:

H319	Causes serious eye irritation.

PRECAUTIONARY STATEMENTS

Prevention

P264	Wash thoroughly after handling.

Response

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

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
Water	7732-18-5	40 - 60
Coconut Oil	8001-31-8	5 - 13
Glycerin	56-81-5	3 - 10
Isopropyl Palmitate	142-91-6	3 - 10
Paraffin Wax	8002-74-2	5 - 10
Polyoxypropylene Stearyl Ether	25231-21-4	3 - 10
Adipic Acid, Bis(1-methylheptyl) Ester	108-63-4	1 - 5
Poly(dimethylsiloxane)	63148-62-9	0.5 - 5
White Mineral Oil (Petroleum)	8042-47-5	1 - 5
Acrylate Terpolymer	Trade Secret	1 - 5
Silicic acid, sodium salt, reaction products with chlorotrimethylsilane and iso-Pr alc	68988-56-7	0.1 - 3
2-Phenoxyethanol	122-99-6	0.1 - 2
Sulfuric Acid Magnesium Salt (1:1), Heptahydrate	10034-99-8	0.1 - 1
Dehydroacetic Acid	520-45-6	< 0.5
Benzoic Acid	65-85-0	< 0.3

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

No need for first aid is anticipated. If symptoms develop, remove the affected person to fresh air. Get medical attention.

Skin contact

If exposed, wash with soap and water. If signs/symptoms develop, get medical attention.

Eye contact

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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
Use a fire fighting agent suitable for the surrounding fire.

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

Hazardous Decomposition or By-Products

Substance	Condition
Hydrocarbons.	During combustion.
Formaldehyde	During combustion.
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Oxides of sulphur.	During combustion.

5.3. Special protective actions for fire-fighters
No special protective actions for fire-fighters are anticipated.

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. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up
Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed 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 eye contact. Do not eat, drink or smoke when using this product. 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
Glycerin	56-81-5	New Zealand WES	TWA(as mist)(8 hours):10 mg/m3	
Benzoic Acid	65-85-0	ACGIH	TWA(inhalable fraction and vapor):0.5 mg/m3	A5: Not suspected human carcinogen, Danger of cutaneous absorption
Vegetable oil mist, total dust.	8001-31-8	New Zealand WES	TWA(as mist)(8 hours):10 mg/m3	
Paraffin Wax	8002-74-2	ACGIH	TWA(as fume):2 mg/m3	
Paraffin Wax	8002-74-2	New Zealand WES	TWA(as fume)(8 hours):2 mg/m3	
Mineral oils, highly-refined oils	8042-47-5	ACGIH	TWA(inhalable fraction):5 mg/m3	A4: Not class. as human carcinogin
Paraffin oil	8042-47-5	New Zealand WES	TWA(as mist)(8 hours):5 mg/m3;STEL(as mist)(15 minutes):10 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
No engineering controls required.

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:
Indirect vented goggles.

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
No chemical protective gloves are required.

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:	Cream
Colour	White
Odour	Light Odour
Odour threshold	*No data available.*
pH	*No data available.*
Melting point/Freezing point	*No data available.*
Boiling point/Initial boiling point/Boiling range	*No data available.*
Flash point	No flash point
Evaporation rate	*No data available.*
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	*No data available.*
Flammable Limits(UEL)	*No data available.*
Vapour pressure	*No data available.*
Vapor Density and/or Relative Vapor Density	*No data available.*
Density	0.99 g/ml
Relative density	0.99 [*Ref Std:*WATER=1]
Water solubility	*No data available.*
Solubility- non-water	*No data available.*
Partition coefficient: n-octanol/water	*No data available.*
Autoignition temperature	*No data available.*
Decomposition temperature	*No data available.*
Viscosity/Kinematic Viscosity	20,000 - 150,000 mPa-s
Volatile organic compounds (VOC)	*No data available.*
Percent volatile	*Not applicable.*
VOC less H2O & exempt solvents	*No data available.*
Molecular weight	*Not applicable.*

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
No known health effects.

Skin contact
No health effects are expected.

Eye contact
Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

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	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Paraffin Wax	Dermal	Rat	LD50 > 5,000 mg/kg
Paraffin Wax	Ingestion	Rat	LD50 > 5,000 mg/kg
Glycerin	Dermal	Rabbit	LD50 estimated to be > 5,000 mg/kg
Glycerin	Ingestion	Rat	LD50 > 5,000 mg/kg
Isopropyl Palmitate	Ingestion	Mouse	LD50 > 5,000 mg/kg
Isopropyl Palmitate	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg

Adipic Acid, Bis(1-methylheptyl) Ester	Dermal		LD50 estimated to be > 5,000 mg/kg
Adipic Acid, Bis(1-methylheptyl) Ester	Ingestion		LD50 estimated to be > 5,000 mg/kg
Poly(dimethylsiloxane)	Dermal	Rabbit	LD50 > 19,400 mg/kg
White Mineral Oil (Petroleum)	Dermal	Rabbit	LD50 > 2,000 mg/kg
Poly(dimethylsiloxane)	Ingestion	Rat	LD50 > 17,000 mg/kg
White Mineral Oil (Petroleum)	Ingestion	Rat	LD50 > 5,000 mg/kg
2-Phenoxyethanol	Dermal	Rabbit	LD50 > 2,000 mg/kg
2-Phenoxyethanol	Inhalation-Dust/Mist	Rat	LC50 > 1.5 mg/l
2-Phenoxyethanol	Ingestion	Rat	LD50 1,394 mg/kg
Dehydroacetic Acid	Dermal		estimated to be > 5,000 mg/kg
Dehydroacetic Acid	Inhalation-Dust/Mist		estimated to be > 12.5 mg/l
Dehydroacetic Acid	Ingestion		estimated to be 300 - 2,000 mg/kg
Benzoic Acid	Dermal	Rabbit	LD50 > 2,000 mg/kg
Benzoic Acid	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 12.2 mg/l
Benzoic Acid	Ingestion	Rat	LD50 2,565 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Paraffin Wax	Rabbit	No significant irritation
Glycerin	Rabbit	No significant irritation
Isopropyl Palmitate	Rabbit	Minimal irritation
Adipic Acid, Bis(1-methylheptyl) Ester	Professional judgement	Minimal irritation
Poly(dimethylsiloxane)	Rabbit	No significant irritation
White Mineral Oil (Petroleum)	Rabbit	No significant irritation
2-Phenoxyethanol	Rabbit	No significant irritation
Benzoic Acid	Human	Irritant

Serious Eye Damage/Irritation

Name	Species	Value
Paraffin Wax	Rabbit	No significant irritation
Glycerin	Rabbit	No significant irritation
Isopropyl Palmitate	Rabbit	No significant irritation
Adipic Acid, Bis(1-methylheptyl) Ester	Professional judgement	Mild irritant
Poly(dimethylsiloxane)	Rabbit	No significant irritation
White Mineral Oil (Petroleum)	Rabbit	Mild irritant
2-Phenoxyethanol	Rabbit	Corrosive
Benzoic Acid	Rabbit	Corrosive

Sensitisation:

Skin Sensitisation

Name	Species	Value
Paraffin Wax	Guinea pig	Not classified
Glycerin	Guinea pig	Not classified
White Mineral Oil (Petroleum)	Guinea	Not classified

	pig	
2-Phenoxyethanol	Guinea pig	Not classified
Benzoic Acid	Multiple animal species	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
Paraffin Wax	In Vitro	Not mutagenic
White Mineral Oil (Petroleum)	In Vitro	Not mutagenic
2-Phenoxyethanol	In Vitro	Not mutagenic
2-Phenoxyethanol	In vivo	Not mutagenic
Benzoic Acid	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Paraffin Wax	Ingestion	Rat	Not carcinogenic
Glycerin	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification
White Mineral Oil (Petroleum)	Dermal	Mouse	Not carcinogenic
White Mineral Oil (Petroleum)	Inhalation	Multiple animal species	Not carcinogenic
2-Phenoxyethanol	Ingestion	Multiple animal species	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Glycerin	Ingestion	Not classified for female reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerin	Ingestion	Not classified for male reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerin	Ingestion	Not classified for development	Rat	NOAEL 2,000 mg/kg/day	2 generation
White Mineral Oil (Petroleum)	Ingestion	Not classified for female reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
White Mineral Oil (Petroleum)	Ingestion	Not classified for male reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
White Mineral Oil (Petroleum)	Ingestion	Not classified for development	Rat	NOAEL 4,350 mg/kg/day	during gestation
2-Phenoxyethanol	Ingestion	Not classified for female reproduction	Mouse	NOAEL 3,700 mg/kg/day	2 generation
2-Phenoxyethanol	Ingestion	Not classified for male reproduction	Mouse	NOAEL 3,700 mg/kg/day	2 generation
2-Phenoxyethanol	Dermal	Not classified for development	Rabbit	NOAEL 600 mg/kg/day	during organogenesis

2-Phenoxyethanol	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during gestation
Benzoic Acid	Ingestion	Not classified for female reproduction	Rat	NOAEL 900 mg/kg/day	4 generation
Benzoic Acid	Ingestion	Not classified for male reproduction	Rat	NOAEL 900 mg/kg/day	4 generation
Benzoic Acid	Ingestion	Not classified for development	Rat	NOAEL 900 mg/kg/day	4 generation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
2-Phenoxyethanol	Inhalation	respiratory irritation	May cause respiratory irritation	official classification	NOAEL Not available	
Benzoic Acid	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
Paraffin Wax	Ingestion	heart	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 15 mg/kg/day	90 days
Paraffin Wax	Ingestion	hematopoietic system | liver | immune system | skin | endocrine system | bone, teeth, nails, and/or hair | muscles | nervous system | eyes | kidney and/or bladder | respiratory system | vascular system	Not classified	Rat	NOAEL 1,500 mg/kg/day	90 days
Glycerin	Inhalation	respiratory system | heart | liver | kidney and/or bladder	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerin	Ingestion	endocrine system | hematopoietic system | liver | kidney and/or bladder	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
White Mineral Oil (Petroleum)	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,381 mg/kg/day	90 days
White Mineral Oil (Petroleum)	Ingestion	liver | immune system	Not classified	Rat	NOAEL 1,336 mg/kg/day	90 days
2-Phenoxyethanol	Dermal	skin | hematopoietic system | liver | eyes	Not classified	Rabbit	NOAEL 500 mg/kg/day	13 weeks
2-Phenoxyethanol	Ingestion	heart | endocrine system | hematopoietic system | liver | immune system | nervous system | kidney and/or bladder | respiratory system	Not classified	Rat	NOAEL 1,514 mg/kg/day	13 weeks
Benzoic Acid	Dermal	heart | skin | endocrine system |	Not classified	Rabbit	NOAEL 2,500	21 days

		gastrointestinal tract | hematopoietic system | liver | immune system | muscles | nervous system | kidney and/or bladder | respiratory system			mg/kg/day	
Benzoic Acid	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.025 mg/l	28 days
Benzoic Acid	Inhalation	heart | endocrine system | gastrointestinal tract | bone, teeth, nails, and/or hair | hematopoietic system | liver | immune system | nervous system | eyes | kidney and/or bladder	Not classified	Rat	NOAEL 1.2 mg/l	28 days

Aspiration Hazard

Name	Value
White Mineral Oil (Petroleum)	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

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Coconut Oil	8001-31-8	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Glycerin	56-81-5	Bacteria	Experimental	16 hours	NOEC	10,000 mg/l
Glycerin	56-81-5	Rainbow trout	Experimental	96 hours	LC50	54,000 mg/l
Glycerin	56-81-5	Water flea	Experimental	48 hours	LC50	1,955 mg/l
Isopropyl Palmitate	142-91-6	Bacteria	Analogous Compound	18 hours	EC50	>10 mg/l
Isopropyl Palmitate	142-91-6	Green algae	Analogous Compound	72 hours	EC50	>100 mg/l
Isopropyl Palmitate	142-91-6	Water flea	Experimental	48 hours	EC50	>=3,000 mg/l
Isopropyl Palmitate	142-91-6	Zebra Fish	Experimental	96 hours	LC50	>=10,000 mg/l
Isopropyl Palmitate	142-91-6	Water flea	Analogous Compound	21 days	NOEC	100 mg/l

Paraffin Wax	8002-74-2	Green algae	Analogous Compound	96 hours	EC50	>1,000 mg/l
Paraffin Wax	8002-74-2	Rainbow trout	Analogous Compound	96 hours	LC50	>1,000 mg/l
Paraffin Wax	8002-74-2	Water flea	Analogous Compound	48 hours	EC50	>10,000 mg/l
Polyoxypropylene Stearyl Ether	25231-21-4	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Acrylate Terpolymer	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Adipic Acid, Bis(1-methylheptyl) Ester	108-63-4	Activated sludge	Estimated	3 hours	EC50	>350 mg/l
Adipic Acid, Bis(1-methylheptyl) Ester	108-63-4	Bluegill	Estimated	96 hours	LC50	>100 mg/l
Adipic Acid, Bis(1-methylheptyl) Ester	108-63-4	Green algae	Estimated	72 hours	EC50	>500 mg/l
Adipic Acid, Bis(1-methylheptyl) Ester	108-63-4	Water flea	Estimated	48 hours	EC50	>500 mg/l
Adipic Acid, Bis(1-methylheptyl) Ester	108-63-4	Water flea	Estimated	21 days	NOEC	>100 mg/l
Poly(dimethylsiloxane)	63148-62-9	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
White Mineral Oil (Petroleum)	8042-47-5	Water flea	Analogous Compound	48 hours	EL50	>100 mg/l
White Mineral Oil (Petroleum)	8042-47-5	Bluegill	Experimental	96 hours	LL50	>100 mg/l
White Mineral Oil (Petroleum)	8042-47-5	Green algae	Analogous Compound	72 hours	NOEL	100 mg/l
White Mineral Oil (Petroleum)	8042-47-5	Water flea	Analogous Compound	21 days	NOEL	>100 mg/l
Silicic acid, sodium salt, reaction products with chlorotrimethylsilane and iso-Pr alc	68988-56-7	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
2-Phenoxyethano	122-99-6	Activated sludge	Experimental	30 minutes	EC50	>1,000 mg/l

l						
2-Phenoxyethanol	122-99-6	Fathead minnow	Experimental	96 hours	LC50	344 mg/l
2-Phenoxyethanol	122-99-6	Green algae	Experimental	72 hours	EC50	>100 mg/l
2-Phenoxyethanol	122-99-6	Scud	Experimental	96 hours	LC50	357 mg/l
2-Phenoxyethanol	122-99-6	Water flea	Experimental	48 hours	EC50	>500 mg/l
2-Phenoxyethanol	122-99-6	Fathead minnow	Experimental	34 days	NOEC	24 mg/l
2-Phenoxyethanol	122-99-6	Green algae	Experimental	72 hours	NOEC	46 mg/l
2-Phenoxyethanol	122-99-6	Water flea	Experimental	21 days	NOEC	9.43 mg/l
Sulfuric Acid Magnesium Salt (1:1), Heptahydrate	10034-99-8	Algae or other aquatic plants	Estimated	72 hours	IC50	2,490 mg/l
Sulfuric Acid Magnesium Salt (1:1), Heptahydrate	10034-99-8	Fathead minnow	Estimated	96 hours	LC50	5,770 mg/l
Sulfuric Acid Magnesium Salt (1:1), Heptahydrate	10034-99-8	Water flea	Estimated	48 hours	EC50	704 mg/l
Sulfuric Acid Magnesium Salt (1:1), Heptahydrate	10034-99-8	Algae or other aquatic plants	Estimated	72 hours	IC10	88 mg/l
Dehydroacetic Acid	520-45-6	Green algae	Experimental	72 hours	EC50	32.1 mg/l
Dehydroacetic Acid	520-45-6	Water flea	Experimental	48 hours	EC50	>100 mg/l
Dehydroacetic Acid	520-45-6	Green algae	Experimental	72 hours	EC10	23.9 mg/l
Benzoic Acid	65-85-0	Activated sludge	Experimental	3 hours	EC50	>1,000 mg/l
Benzoic Acid	65-85-0	Bluegill	Experimental	96 hours	LC50	44.6 mg/l
Benzoic Acid	65-85-0	Water flea	Experimental	48 hours	EC50	860 mg/l

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Coconut Oil	8001-31-8	Data not availbl-	N/A	N/A	N/A	N/A

		insufficient				
Glycerin	56-81-5	Experimental Biodegradation	14 days	BOD	63 %BOD/ThOD	OECD 301C - MITI test (I)
Isopropyl Palmitate	142-91-6	Experimental Biodegradation	28 days	BOD	91.3 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Paraffin Wax	8002-74-2	Analogous Compound Biodegradation	28 days	BOD	40 %BOD/ThOD	OECD 301F - Manometric respirometry
Polyoxypropylene Stearyl Ether	25231-21-4	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Acrylate Terpolymer	Trade Secret	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Adipic Acid, Bis(1-methylheptyl) Ester	108-63-4	Estimated Biodegradation	28 days	BOD	90-100 %BOD/ThOD	OECD 301F - Manometric respirometry
Poly(dimethylsiloxane)	63148-62-9	Data not availbl-insufficient	N/A	N/A	N/A	N/A
White Mineral Oil (Petroleum)	8042-47-5	Experimental Biodegradation	28 days	CO2 evolution	0 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Silicic acid, sodium salt, reaction products with chlorotrimethylsilane and iso-Pr alc	68988-56-7	Data not availbl-insufficient	N/A	N/A	N/A	N/A
2-Phenoxyethanol	122-99-6	Experimental Biodegradation	28 days	BOD	90 %BOD/ThOD	OECD 301F - Manometric respirometry
Sulfuric Acid Magnesium Salt (1:1), Heptahydrate	10034-99-8	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Dehydroacetic Acid	520-45-6	Experimental Biodegradation	28 days	BOD	70 %BOD/ThOD	OECD 301F - Manometric respirometry
Benzoic Acid	65-85-0	Experimental Biodegradation	14 days	BOD	85 %BOD/ThOD	OECD 301C - MITI test (I)

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Coconut Oil	8001-31-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Glycerin	56-81-5	Experimental Bioconcentration		Log Kow	-1.76	

Isopropyl Palmitate	142-91-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Isopropyl Palmitate	142-91-6	Modeled Bioconcentration		Log Kow	8.16	Episuite™
Paraffin Wax	8002-74-2	Modeled Bioconcentration		Log Kow	10.2	Episuite™
Polyoxypropylene Stearyl Ether	25231-21-4	Estimated Bioconcentration		Bioaccumulation factor	6.5	
Acrylate Terpolymer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Adipic Acid, Bis(1-methylheptyl) Ester	108-63-4	Estimated BCF - Fish	28 days	Bioaccumulation factor	27	
Poly(dimethylsiloxane)	63148-62-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
White Mineral Oil (Petroleum)	8042-47-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Silicic acid, sodium salt, reaction products with chlorotrimethylsilane and iso-Pr alc	68988-56-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2-Phenoxyethanol	122-99-6	Experimental Bioconcentration		Log Kow	1.2	EC A.8 Partition Coefficient
Sulfuric Acid Magnesium Salt (1:1), Heptahydrate	10034-99-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Dehydroacetic Acid	520-45-6	Estimated Bioconcentration		Log Kow	0.78	
Benzoic Acid	65-85-0	Experimental Bioconcentration		Log Kow	1.88	

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. Proper destruction may require the use of additional fuel during incineration processes. Empty and clean product containers may be disposed as non-hazardous waste. Consult your specific regulations and service providers to determine available options and requirements. Dispose of waste product in a permitted industrial waste facility. Empty and clean product containers may be disposed as non-hazardous waste. Consult your specific regulations and service providers to determine available options and requirements.

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

HSNO Approval number	HSR002552
Group standard name	Cosmetic Products Group Standard 2020
HSNO Hazard classification	Refer to Section 2: Hazard identification

NZ Inventory of Chemicals (NZIoC) Status

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 Carcinogenicity Category 2, Specific target organ toxicity Category 1, Skin corrosion Category 1C, 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 Carcinogenicity Category 2, Specific target organ toxicity Category 1, Skin corrosion Category 1C, 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 Skin corrosion Category 1C, Serious eye damage Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Acute toxicity Category 4 or Hazardous to the aquatic environment Category 4 substances)

SECTION 16: Other information

Revision information:
Complete document review.

Document group:	32-7460-2	**Version number:**	2.00
Issue Date:	02/05/2023	**Supersedes date:**	02/05/2023

Key to abbreviations and acronyms
GHS refers to the Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition of 2017
HSNO means Hazardous Substances and New Organisms Act 1996

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

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