Safety Data Sheet

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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™ General Purpose Cleaner Concentrate (Product No. 8, 3M™ Chemical Management Systems)

Product Identification Numbers
70-0716-8350-5

1.2. Recommended use and restrictions on use

Recommended use
High-performance, all-purpose cleaner. For floors, walls and other nonporous surfaces., This product meets Green Seal™ Standard GS-37 based on effective performance, concentrated volume, minimized/recycled packaging, and protective limits on: VOCs and human & environmental toxicity. Skin/eye damage met requirements at the as-used dilution, as specified for closed dilution systems. GreenSeal.org., Hard Surface Cleaner

For Industrial or Professional use 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
Serious eye damage: Category 1

2.2. Label elements
SIGNAL WORD

Danger

Symbols:
Corrosion |

Pictograms

HAZARD STATEMENTS:

H318	Causes serious eye damage.

PRECAUTIONARY STATEMENTS

Prevention

P280A	Wear eye/face protection.

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.
P310	Immediately call a POISON CENTER or doctor/physician.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
Water	7732-18-5	65 - 80
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	5 - 20
Non-ionic Surfactants	Trade Secret	<= 10
Surfactant 1	Trade Secret	< 3
Caprylyl Pyrrolidone	2687-94-7	< 1
Sodium Carbonate	497-19-8	<= 1
Surfactant 2	Trade Secret	< 0.5
Alcohols and Polysiloxane Adduct Mixture	Trade Secret	< 0.5
Fragrance	Trade Secret	< 0.05
Polyethylene Glycol	25322-68-3	< 0.05
Red 40	25956-17-6	< 0.05

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
Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately 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.

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. 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 water. 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
For industrial/occupational use only. Not for consumer sale or use. This product is not intended to be used without prior dilution as specified on the product label. Grounding or safety shoes with electrostatic dissipating soles (ESD) are not required with a chemical dispensing system. Keep out of reach of children. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. 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.)

7.2. Conditions for safe storage including any incompatibilities
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
Polyethylene Glycol	25322-68-3	AIHA	TWA:10 mg/m³	
Fragrance	Trade Secret	ACGIH	TWA:20 ppm	A4: Not class. as human carcin, Dermal Sensitizer
Fragrance	Trade Secret	New Zealand WES	TWA(8 hours):28 mg/m3(5 ppm);STEL(15 minutes):56 mg/m3(10 ppm)	Dermal sensitizer, SKIN

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
NOTE: When used with a chemical dispensing system as directed, special ventilation is not required. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

NOTE: When used with a chemical dispensing system as directed, eye contact with the concentrate is not expected to occur. The following protection(s) are recommended if the product is not used with a chemical dispensing system or if there is an accidental release, wear protective 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:
Full face shield.
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
NOTE: When used with a chemical dispensing system as directed, skin contact with the concentrate is not expected to occur. If product is not used with a chemical dispensing system or if there is an accidental release:
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based

on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.
Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.
Gloves made from the following material(s) are recommended: Polymer laminate

When only incidental contact is anticipated, alternative glove material(s) may be used. If contact with the glove does occur, remove immediately and replace with a set of new gloves. For incidental contact, gloves made of the following material(s) may be used:Nitrile rubber.

Respiratory protection

NOTE: When used with a chemical dispensing system as directed, respiratory protection is not required.
If product is not used with a chemical dispensing system or if there is an accidental release:
An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

Refer AS/NZS 1715 - Selection, use and maintenance of respiratory protective equipment and AS/NZS 1716 - Respiratory protective devices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Specific Physical Form:	Liquid.
Colour	Red
Odour	Citrus
Odour threshold	*No data available.*
pH	10 - 11
Melting point/Freezing point	*Not applicable.*
Boiling point/Initial boiling point/Boiling range	> 100 ºC
Flash point	97 ºC [*Test Method:*Closed Cup]
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	1 kg/l
Relative density	1.036 [*Ref Std:*WATER=1]
Water solubility	Complete
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	< 100 mPa-s
Volatile organic compounds (VOC)	< 0.5 % weight [*Test Method:*calculated per CARB title 2]
Percent volatile	*No data available.*

VOC less H2O & exempt solvents	< 7 g/l [*Test Method:*calculated per CARB title 2]
Molecular weight	*Not applicable.*

SECTION 10: Stability and reactivity

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

10.2 Chemical stability
Stable.

10.3 Possibility of hazardous reactions
Hazardous polymerisation will not occur.

10.4 Conditions to avoid
None known.

10.5 Incompatible materials
Strong oxidising agents.

10.6 Hazardous decomposition products

Substance	Condition
Carbon monoxide.	Not specified.
Carbon dioxide.	Not specified.
Oxides of nitrogen.	Not specified.

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.

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

Eye contact
Corrosive (eye burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of 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
D-Glucopyranose, oligomers, decyl octyl glycosides	Dermal	Rabbit	LD50 > 2,000 mg/kg
D-Glucopyranose, oligomers, decyl octyl glycosides	Ingestion	Rat	LD50 > 2,000 mg/kg
Non-ionic Surfactants	Dermal	Rabbit	LD50 > 1,000 mg/kg
Non-ionic Surfactants	Ingestion	Rat	LD50 > 2,500 mg/kg
Surfactant 1	Dermal	Rabbit	LD50 > 2,000 mg/kg
Surfactant 1	Ingestion	Rat	LD50 > 700 mg/kg
Sodium Carbonate	Dermal	Rabbit	LD50 > 2,000 mg/kg
Sodium Carbonate	Ingestion	Rat	LD50 2,800 mg/kg
Caprylyl Pyrrolidone	Inhalation-Vapor	Professional judgement	LC50 estimated to be > 50 mg/l
Caprylyl Pyrrolidone	Dermal	Rat	LD50 > 4,000 mg/kg
Caprylyl Pyrrolidone	Ingestion	Rat	LD50 2,050 mg/kg
Surfactant 2	Dermal	Rabbit	LD50 > 3,160 mg/kg
Surfactant 2	Ingestion	Rat	LD50 3,000 mg/kg
Polyethylene Glycol	Dermal	Rabbit	LD50 > 20,000 mg/kg
Polyethylene Glycol	Ingestion	Rat	LD50 32,770 mg/kg
Red 40	Dermal	Rabbit	LD50 > 10,000 mg/kg
Red 40	Ingestion	Rat	LD50 > 10,000 mg/kg
Fragrance	Dermal	Rat	LD50 > 2,000 mg/kg
Fragrance	Ingestion	Rat	LD50 >300, <2,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
D-Glucopyranose, oligomers, decyl octyl glycosides	Rabbit	Minimal irritation
Non-ionic Surfactants	Rabbit	Irritant
Surfactant 1	similar health hazards	Irritant
Sodium Carbonate	Rabbit	No significant irritation
Caprylyl Pyrrolidone	Rabbit	Corrosive
Surfactant 2	Rabbit	Irritant
Polyethylene Glycol	Rabbit	Minimal irritation
Red 40	Human and animal	No significant irritation
Fragrance	In vitro data	Irritant

Serious Eye Damage/Irritation

Name	Species	Value
D-Glucopyranose, oligomers, decyl octyl glycosides	Rabbit	Corrosive
Non-ionic Surfactants	Rabbit	Corrosive
Surfactant 1	Professional judgement	Corrosive
Sodium Carbonate	Rabbit	Corrosive
Caprylyl Pyrrolidone	Rabbit	Corrosive
Surfactant 2	Rabbit	Severe irritant

Polyethylene Glycol	Rabbit	Mild irritant
Fragrance	In vitro data	No significant irritation

Sensitisation:

Skin Sensitisation

Name	Species	Value
D-Glucopyranose, oligomers, decyl octyl glycosides	Mouse	Not classified
Non-ionic Surfactants	Guinea pig	Not classified
Caprylyl Pyrrolidone	Human and animal	Not classified
Surfactant 2	Human and animal	Not classified
Polyethylene Glycol	Guinea pig	Not classified
Red 40	Human	Not classified
Fragrance	Professional judgement	Sensitising

Photosensitisation

Name	Species	Value
Red 40	Human	Not sensitizing

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
D-Glucopyranose, oligomers, decyl octyl glycosides	In Vitro	Not mutagenic
Non-ionic Surfactants	In Vitro	Not mutagenic
Non-ionic Surfactants	In vivo	Not mutagenic
Sodium Carbonate	In Vitro	Not mutagenic
Caprylyl Pyrrolidone	In Vitro	Not mutagenic
Caprylyl Pyrrolidone	In vivo	Not mutagenic
Surfactant 2	In vivo	Not mutagenic
Surfactant 2	In Vitro	Some positive data exist, but the data are not sufficient for classification
Polyethylene Glycol	In Vitro	Not mutagenic
Polyethylene Glycol	In vivo	Not mutagenic
Red 40	In Vitro	Not mutagenic
Fragrance	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Surfactant 2	Dermal	Mouse	Not carcinogenic
Polyethylene Glycol	Ingestion	Rat	Not carcinogenic
Red 40	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure

					Duration
Sodium Carbonate	Ingestion	Not classified for development	Mouse	NOAEL 340 mg/kg/day	during organogenesis
Caprylyl Pyrrolidone	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	1 generation
Caprylyl Pyrrolidone	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	1 generation
Caprylyl Pyrrolidone	Ingestion	Not classified for development	Rat	NOAEL 300 mg/kg/day	1 generation
Surfactant 2	Not specified.	Not classified for development	similar compoun ds	NOAEL Not available	
Polyethylene Glycol	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,125 mg/kg/day	during gestation
Polyethylene Glycol	Ingestion	Not classified for male reproduction	Rat	NOAEL 5699 +/-1341 mg/kg/day	5 days
Polyethylene Glycol	Not specified.	Not classified for reproduction and/or development		NOEL N/A	
Polyethylene Glycol	Ingestion	Not classified for development	Mouse	NOAEL 562 mg/animal/da y	during gestation
Red 40	Ingestion	Not classified for female reproduction	Rat	NOAEL 3,600 mg/kg/day	2 generation
Red 40	Ingestion	Not classified for male reproduction	Rat	NOAEL 2,830 mg/kg/day	2 generation
Red 40	Ingestion	Not classified for development	Rat	NOAEL 3,600 mg/kg/day	2 generation
Fragrance	Ingestion	Not classified for female reproduction	Rat	NOAEL 466 mg/kg/day	2 generation
Fragrance	Ingestion	Not classified for male reproduction	Rat	NOAEL 466 mg/kg/day	2 generation
Fragrance	Ingestion	Not classified for development	Rat	NOAEL 110 mg/kg/day	during gestation
Fragrance	Inhalation	Not classified for male reproduction	Mouse	NOAEL 0.28 mg/l	90 days

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
D-Glucopyranose, oligomers, decyl octyl glycosides	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
Non-ionic Surfactants	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
Surfactant 1	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
Caprylyl Pyrrolidone	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Surfactant 2	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Surfactant 2	Inhalation	central nervous system depression	Not classified	Rat	NOAEL 0.4 mg/l	6 hours
Surfactant 2	Ingestion	central nervous system depression	Some positive data exist, but the data are not sufficient for	Rat	NOAEL Not available	

			classification			
Polyethylene Glycol	Inhalation	respiratory irritation	Not classified	Rat	NOAEL 1.008 mg/l	2 weeks
Fragrance	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
Non-ionic Surfactants	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 250 mg/kg/day	90 days
Non-ionic Surfactants	Ingestion	endocrine system | liver | immune system | nervous system | hematopoietic system | eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Sodium Carbonate	Inhalation	respiratory system	Not classified	Rat	LOAEL 0.07 mg/l	3 months
Caprylyl Pyrrolidone	Ingestion	liver | hematopoietic system | eyes | kidney and/or bladder | respiratory system	Not classified	Rat	NOAEL 492 mg/kg/day	90 days
Caprylyl Pyrrolidone	Ingestion	heart | endocrine system | gastrointestinal tract | immune system | nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Polyethylene Glycol	Inhalation	respiratory system	Not classified	Rat	NOAEL 1.008 mg/l	2 weeks
Polyethylene Glycol	Ingestion	kidney and/or bladder | heart | endocrine system | hematopoietic system | liver | nervous system	Not classified	Rat	NOAEL 5,640 mg/kg/day	13 weeks
Red 40	Dermal	skin	Not classified	Mouse	NOAEL 167 mg/kg/day	20 months
Red 40	Ingestion	endocrine system	Not classified	Mouse	NOAEL 8,350 mg/kg/day	1 generation
Red 40	Ingestion	heart | bone marrow | hematopoietic system | liver | immune system | nervous system | eyes | kidney and/or bladder | respiratory system	Not classified	Rat	NOAEL 3,600 mg/kg/day	1 generation
Fragrance	Inhalation	hematopoietic system | liver	Not classified	Rat	NOAEL 2.2 mg/l	90 days
Fragrance	Inhalation	kidney and/or bladder	Not classified	Mouse	NOAEL 0.28 mg/l	90 days
Fragrance	Inhalation	heart | skin | endocrine system | gastrointestinal tract | bone, teeth, nails, and/or hair | immune system | nervous system | eyes | respiratory system | vascular system	Not classified	Rat	NOAEL 2.2 mg/l	90 days
Fragrance	Ingestion	immune system	Not classified	Rat	NOAEL 788 mg/kg/day	21 days

Aspiration Hazard

Name	Value
Fragrance	Aspiration hazard

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

SECTION 12: Ecological information

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

12.1. Toxicity
Ecotoxic to the aquatic environment.
Acute Aquatic Toxicity: Category 3

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	Green algae	Experimental	72 hours	ErC50	27.22 mg/l
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	Water flea	Experimental	48 hours	EC50	>100 mg/l
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	Zebra Fish	Experimental	96 hours	LC50	101 mg/l
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	Water flea	Analogous Compound	21 days	NOEC	2 mg/l
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	Zebra Fish	Analogous Compound	28 days	NOEC	1.8 mg/l
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	Green algae	Experimental	72 hours	EbC10	6.25 mg/l
Non-ionic Surfactants	Trade Secret	Bacteria	Experimental	16 hours	NOEC	5,000 mg/l

Non-ionic Surfactants	Trade Secret	Green algae	Experimental	72 hours	ErC50	12.5 mg/l
Non-ionic Surfactants	Trade Secret	Water flea	Experimental	48 hours	EC50	7 mg/l
Non-ionic Surfactants	Trade Secret	Zebra Fish	Experimental	96 hours	LC50	2.95 mg/l
Non-ionic Surfactants	Trade Secret	Green algae	Experimental	72 hours	EC10	4.15 mg/l
Non-ionic Surfactants	Trade Secret	Water flea	Experimental	21 days	NOEC	2 mg/l
Non-ionic Surfactants	Trade Secret	Zebra Fish	Experimental	28 days	NOEC	1.8 mg/l
Surfactant 1	Trade Secret	Green algae	Analogous Compound	72 hours	ErC50	0.43 mg/l
Surfactant 1	Trade Secret	Green algae	Analogous Compound	72 hours	NOEC	0.09 mg/l
Caprylyl Pyrrolidone	2687-94-7	Activated sludge	Experimental	30 minutes	EC50	250 mg/l
Caprylyl Pyrrolidone	2687-94-7	Green algae	Experimental	96 hours	EC50	6.2 mg/l
Caprylyl Pyrrolidone	2687-94-7	Rainbow trout	Experimental	96 hours	LC50	17.8 mg/l
Caprylyl Pyrrolidone	2687-94-7	Water flea	Experimental	48 hours	EC50	7.59 mg/l
Caprylyl Pyrrolidone	2687-94-7	Green algae	Experimental	96 hours	NOEC	3.24 mg/l
Caprylyl Pyrrolidone	2687-94-7	Water flea	Experimental	21 days	NOEC	2.5 mg/l
Caprylyl Pyrrolidone	2687-94-7	Zebra Fish	Experimental	35 days	NOEC	0.91 mg/l
Sodium Carbonate	497-19-8	Algae or other aquatic plants	Experimental	96 hours	EC50	242 mg/l
Sodium Carbonate	497-19-8	Bluegill	Experimental	96 hours	LC50	300 mg/l
Sodium Carbonate	497-19-8	Water flea	Experimental	48 hours	EC50	200 mg/l
Surfactant 2	Trade Secret	Green algae	Analogous Compound	72 hours	EC50	0.66 mg/l
Surfactant 2	Trade Secret	Water flea	Analogous Compound	48 hours	EC50	0.765 mg/l
Surfactant 2	Trade Secret	Bleak	Experimental	96 hours	LC50	4.6 mg/l
Surfactant 2	Trade Secret	Fathead minnow	Experimental	96 hours	LC50	1.04 mg/l
Surfactant 2	Trade Secret	Invertebrate	Experimental	96 hours	LC50	0.8 mg/l
Surfactant 2	Trade Secret	Fathead minnow	Analogous Compound	33 days	EC10	0.43 mg/l
Surfactant 2	Trade Secret	Green algae	Analogous Compound	72 hours	NOEC	0.085 mg/l
Surfactant 2	Trade Secret	Water flea	Analogous Compound	21 days	NOEC	0.014 mg/l
Surfactant 2	Trade Secret	Ciliated protozoa	Analogous Compound	48 hours	IC50	1.58 mg/l
Fragrance	Trade Secret	Green algae	Analogous Compound	48 hours	ErC50	1.44 mg/l

Fragrance	Trade Secret	Common Carp	Experimental	96 hours	LC50	0.27 mg/l
Fragrance	Trade Secret	Water flea	Experimental	48 hours	EC50	0.475 mg/l
Polyethylene Glycol	25322-68-3	Activated sludge	Experimental	N/A	EC50	>1,000 mg/l
Polyethylene Glycol	25322-68-3	Atlantic Salmon	Experimental	96 hours	LC50	>1,000 mg/l
Red 40	25956-17-6	Green algae	Analogous Compound	72 hours	EC50	276.1 mg/l
Red 40	25956-17-6	Water flea	Experimental	48 hours	EC50	>100 mg/l
Red 40	25956-17-6	Zebra Fish	Experimental	96 hours	LC50	>100 mg/l

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	100 % removal of DOC	OECD 301E - Modif. OECD Screen
Non-ionic Surfactants	Trade Secret	Experimental Biodegradation	28 days	BOD	88 %BOD/ThOD	OECD 301D - Closed bottle test
Surfactant 1	Trade Secret	Modeled Biodegradation	28 days	CO2 evolution	95 %CO2 evolution/THCO2 evolution	Catalogic™
Caprylyl Pyrrolidone	2687-94-7	Experimental Biodegradation	28 days	BOD	81 %BOD/ThOD	OECD 301F - Manometric respirometry
Sodium Carbonate	497-19-8	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Surfactant 2	Trade Secret	Analogous Compound Biodegradation	28 days	BOD	100 %BOD/ThOD	
Fragrance	Trade Secret	Experimental Biodegradation	28 days	BOD	68 %BOD/ThOD	OECD 301D - Closed bottle test
Fragrance	Trade Secret	Experimental Photolysis		Photolytic half-life (in air)	7.2 hours (t 1/2)	
Polyethylene Glycol	25322-68-3	Experimental Biodegradation	28 days	BOD	53 %BOD/ThOD	OECD 301C - MITI test (I)
Red 40	25956-17-6	Analogous Compound Biodegradation	28 days	BOD	12.807 %BOD/ThOD	OECD 301F - Manometric respirometry

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	Analogous Compound Bioconcentration		Log Kow	1.72	EC A.8 Partition Coefficient
Non-ionic Surfactants	Trade Secret	Estimated Bioconcentration		Log Kow	≤0.07	

Surfactant 1	Trade Secret	Modeled Bioconcentration		Bioaccumulation factor	50	Catalogic™
Caprylyl Pyrrolidone	2687-94-7	Estimated Bioconcentration		Bioaccumulation factor	2.5	
Caprylyl Pyrrolidone	2687-94-7	Experimental Bioconcentration		Log Kow	4.15	EC A.8 Partition Coefficient
Sodium Carbonate	497-19-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Surfactant 2	Trade Secret	Modeled Bioconcentration		Bioaccumulation factor	56	Catalogic™
Surfactant 2	Trade Secret	Experimental Bioconcentration		Log Kow	4.8	
Fragrance	Trade Secret	Modeled Bioconcentration		Bioaccumulation factor	3500	Catalogic™
Fragrance	Trade Secret	Experimental Bioconcentration		Log Kow	4.44	OECD 117 log Kow HPLC method
Polyethylene Glycol	25322-68-3	Estimated Bioconcentration		Bioaccumulation factor	2.3	
Red 40	25956-17-6	Experimental Bioconcentration		Log Kow	0.052	

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 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:

SECTION 15: Regulatory information

HSNO Approval number	HSR002530
Group standard name	Cleaning 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

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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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