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™ Perfect-It™ Boat Wash, 09034, 09035

Product Identification Numbers
60-4550-8612-8 (Legacy ID) 7100087813 (SAP ID)
60-4550-8613-6 (Legacy ID) 7100087484 (SAP ID)

1.2. Recommended use and restrictions on use

Recommended use
Marine

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
Skin irritation: Category 2
Eye irritation: Category 2
Hazardous to the aquatic environment chronic: Category 3

2.2. Label elements
SIGNAL WORD

Warning

Symbols:
Exclamation mark |

Pictograms

HAZARD STATEMENTS:

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

General

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

Prevention

P264	Wash exposed skin thoroughly after handling.
P273	Avoid release to the environment.

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.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Disposal

P501	Dispose of contents/container via an approved hazardous waste disposal contractor.

2.3. Other hazards
Test data on the raw material is reflected in the skin and eye hazard classification for the product.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
Water	7732-18-5	70 - 90
Alcohol Ethoxysulfate (Sodium Salt)	68585-34-2	1 - 5
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	68081-81-2	1 - 5
Cocoamidopropylbetaine	61789-40-0	1 - 5
Lauryldimethylamine Oxide	1643-20-5	1 - 5
Sodium Mono-C10-16-Alkyl Sulfates	68585-47-7	1 - 5
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	68439-57-6	1 - 5
Sodium Chloride	7647-14-5	1 - 5
Methylchloroisothiazolinone	26172-55-4	< 0.0015

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
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.

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
Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. 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.

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
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.

7.2. Conditions for safe storage including any incompatibilities
Protect from sunlight. Store away from heat.

7.3. Certified handler
Not required

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits
No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

8.2. Exposure controls

8.2.1. Engineering controls
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

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.
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
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

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Respiratory protection

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
Half facepiece or full facepiece supplied-air respirator.

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.
Colour	Bright Yellow
Odour	Fruity Odour, Pleasant odour, Sweet Clean
Odour threshold	*No data available.*
pH	7.8 - 8.8
Melting point/Freezing point	*Not applicable.*
Boiling point/Initial boiling point/Boiling range	*No data available.*
Flash point	No flash point
Evaporation rate	*No data available.*
Flammability	Not applicable.
Flammable Limits(LEL)	*Not applicable.*
Flammable Limits(UEL)	*Not applicable.*
Vapour pressure	*No data available.*
Relative Vapour Density	*No data available.*
Density	1 g/cm3
Relative density	0.995 - 1.042 [*Ref Std:*WATER=1]
Water solubility	Complete
Solubility- non-water	Complete
Partition coefficient: n-octanol/water	*No data available.*
Autoignition temperature	*Not applicable.*
Decomposition temperature	*No data available.*
Kinematic Viscosity	144 mm²/sec
Volatile organic compounds (VOC)	0.1 % weight [*Test Method:*calculated per CARB title 2]
Percent volatile	89.8 % weight [*Test Method:*Estimated]
VOC less H2O & exempt solvents	0.1 lb/gal [*Test Method:*calculated SCAQMD rule 443.1]
Molecular weight	*Not applicable.*

Particle Characteristics	*Not applicable.*

SECTION 10: Stability and reactivity

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

10.2 Chemical stability
Stable.

10.3 Possibility of hazardous reactions
Hazardous polymerisation will not occur.

10.4 Conditions to avoid
Heat.

10.5 Incompatible materials
None known.

10.6 Hazardous decomposition products

Substance	Condition
Carbon monoxide.	Not specified.
Carbon dioxide.	Not specified.
Irritant vapours or gases.	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
Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain. Allergic Skin Reaction (non-photo induced) in sensitive people: Signs/symptoms may include redness, swelling, blistering, and itching.

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	Ingestion		No data available; calculated ATE >5,000 mg/kg
Sodium Mono-C10-16-Alkyl Sulfates	Dermal	Rat	LD50 > 2,000 mg/kg
Sodium Mono-C10-16-Alkyl Sulfates	Ingestion	Rat	LD50 1,800 mg/kg
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	Dermal	Rabbit	LD50 6,300 mg/kg
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 52 mg/l
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	Ingestion	Rat	LD50 2,079 mg/kg
Alcohol Ethoxysulfate (Sodium Salt)	Dermal	Rat	LD50 > 2,000 mg/kg
Alcohol Ethoxysulfate (Sodium Salt)	Ingestion	Rat	LD50 2,870 mg/kg
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	Dermal	Rat	LD50 > 2,000 mg/kg
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	Ingestion	Rat	LD50 1,080 mg/kg
Cocoamidopropylbetaine	Dermal	Rat	LD50 > 2,000 mg/kg
Cocoamidopropylbetaine	Ingestion	Rat	LD50 > 1,500 mg/kg
Lauryldimethylamine Oxide	Ingestion	Rat	LD50 1,064 mg/kg
Lauryldimethylamine Oxide	Dermal	similar compounds	LD50 > 2,000 mg/kg
Sodium Chloride	Dermal	Rabbit	LD50 > 10,000 mg/kg
Sodium Chloride	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 10.5 mg/l
Sodium Chloride	Ingestion	Rat	LD50 3,550 mg/kg
Methylchloroisothiazolinone	Dermal	Rabbit	LD50 87 mg/kg
Methylchloroisothiazolinone	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.171 mg/l
Methylchloroisothiazolinone	Ingestion	Rat	LD50 40 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Sodium Mono-C10-16-Alkyl Sulfates	Rabbit	Irritant
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	Rabbit	Irritant
Alcohol Ethoxysulfate (Sodium Salt)	Rabbit	Irritant
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	Rabbit	Irritant
Cocoamidopropylbetaine	Rabbit	Minimal irritation
Lauryldimethylamine Oxide	Rabbit	Irritant
Sodium Chloride	Rabbit	No significant irritation
Methylchloroisothiazolinone	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
Sodium Mono-C10-16-Alkyl Sulfates	Rabbit	Corrosive
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	Rabbit	Corrosive
Alcohol Ethoxysulfate (Sodium Salt)	Rabbit	Corrosive
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	Rabbit	Corrosive
Cocoamidopropylbetaine	Rabbit	Corrosive
Lauryldimethylamine Oxide	Rabbit	Corrosive
Sodium Chloride	Rabbit	Mild irritant
Methylchloroisothiazolinone	Rabbit	Corrosive

Sensitisation:

Skin Sensitisation

Name	Species	Value
Sodium Mono-C10-16-Alkyl Sulfates	Guinea pig	Not classified
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	Guinea pig	Not classified
Alcohol Ethoxysulfate (Sodium Salt)	Guinea pig	Not classified
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	Guinea pig	Not classified
Cocoamidopropylbetaine	Multiple animal species	Not classified
Lauryldimethylamine Oxide	Guinea pig	Not classified
Methylchloroisothiazolinone	Human and animal	Sensitising

Photosensitisation

Name	Species	Value
Methylchloroisothiazolinone	Human and animal	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
Sodium Mono-C10-16-Alkyl Sulfates	In Vitro	Not mutagenic
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	In Vitro	Not mutagenic
Alcohol Ethoxysulfate (Sodium Salt)	In Vitro	Not mutagenic
Alcohol Ethoxysulfate (Sodium Salt)	In vivo	Not mutagenic
Cocoamidopropylbetaine	In Vitro	Not mutagenic
Cocoamidopropylbetaine	In vivo	Not mutagenic
Lauryldimethylamine Oxide	In Vitro	Not mutagenic
Lauryldimethylamine Oxide	In vivo	Not mutagenic
Sodium Chloride	In Vitro	Some positive data exist, but the data are not sufficient for classification
Sodium Chloride	In vivo	Some positive data exist, but the data are not sufficient for classification
Methylchloroisothiazolinone	In vivo	Not mutagenic
Methylchloroisothiazolinone	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	Ingestion	Rat	Not carcinogenic
Lauryldimethylamine Oxide	Dermal	Mouse	Not carcinogenic
Lauryldimethylamine Oxide	Ingestion	Rat	Not carcinogenic
Sodium Chloride	Ingestion	Rat	Not carcinogenic
Methylchloroisothiazolinone	Dermal	Mouse	Not carcinogenic
Methylchloroisothiazolinone	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Sodium Mono-C10-16-Alkyl Sulfates	Ingestion	Not classified for development	Rat	NOAEL 250 mg/kg/day	during organogenesis
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	Ingestion	Not classified for development	Mouse	NOAEL 2 mg/kg/day	during organogenesis
Alcohol Ethoxysulfate (Sodium Salt)	Ingestion	Not classified for female reproduction	Rat	NOAEL 300 mg/kg/day	2 generation
Alcohol Ethoxysulfate (Sodium Salt)	Ingestion	Not classified for male reproduction	Rat	NOAEL 300 mg/kg/day	2 generation
Alcohol Ethoxysulfate (Sodium Salt)	Ingestion	Not classified for development	Rat	NOAEL 300 mg/kg/day	2 generation
Lauryldimethylamine Oxide	Ingestion	Not classified for male reproduction	Rat	NOAEL 250 mg/kg/day	28 days
Lauryldimethylamine Oxide	Ingestion	Not classified for female reproduction	Rat	NOAEL 100 mg/kg/day	premating into lactation
Lauryldimethylamine Oxide	Ingestion	Not classified for development	Rat	NOAEL 25 mg/kg/day	during gestation
Methylchloroisothiazolinone	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
Methylchloroisothiazolinone	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
Methylchloroisothiazolinone	Ingestion	Not classified for development	Rat	NOAEL 15 mg/kg/day	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Sodium Mono-C10-16-Alkyl Sulfates	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Alcohol Ethoxysulfate (Sodium Salt)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
Cocoamidopropylbetaine	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Lauryldimethylamine Oxide	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Methylchloroisothiazolinone	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	Ingestion	endocrine system | hematopoietic system | liver | immune system | eyes | kidney and/or bladder	Not classified	Rat	NOAEL 195 mg/kg/day	2 years
Alcohol Ethoxysulfate (Sodium Salt)	Dermal	skin | heart | endocrine system | gastrointestinal tract | hematopoietic	Not classified	Mouse	NOAEL 6.91 mg/day	90 days

		system | liver | immune system | nervous system | eyes | kidney and/or bladder | respiratory system | vascular system				
Alcohol Ethoxysulfate (Sodium Salt)	Ingestion	blood | eyes	Not classified	Rat	NOAEL 225 mg/kg/day	90 days
Cocoamidopropylbetaine	Ingestion	heart | endocrine system | hematopoietic system | liver | nervous system | eyes | kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	92 days
Lauryldimethylamine Oxide	Dermal	skin	Not classified	Mouse	NOAEL 6.2 mg/kg/day	91 days
Lauryldimethylamine Oxide	Ingestion	eyes	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 88 mg/kg/day	90 days
Lauryldimethylamine Oxide	Ingestion	heart | skin | endocrine system | gastrointestinal tract | hematopoietic system | liver | immune system | muscles | nervous system | kidney and/or bladder | respiratory system	Not classified	Rat	NOAEL 440 mg/kg/day	90 days
Sodium Chloride	Ingestion	blood | kidney and/or bladder | vascular system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2,240 mg/kg/day	9 months
Sodium Chloride	Ingestion	nervous system | eyes	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,700 mg/kg/day	90 days
Sodium Chloride	Ingestion	liver | respiratory system	Not classified	Rat	NOAEL 33 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 3
Chronic Aquatic Toxicity: Category 3

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result

Alcohol Ethoxysulfate (Sodium Salt)	68585-34-2	Green algae	Experimental	72 hours	ErC50	27.7 mg/l
Alcohol Ethoxysulfate (Sodium Salt)	68585-34-2	Water flea	Experimental	48 hours	EC50	7.2 mg/l
Alcohol Ethoxysulfate (Sodium Salt)	68585-34-2	Zebra Fish	Experimental	96 hours	LC50	7.1 mg/l
Alcohol Ethoxysulfate (Sodium Salt)	68585-34-2	Water flea	Analogous Compound	21 days	NOEC	0.27 mg/l
Alcohol Ethoxysulfate (Sodium Salt)	68585-34-2	Bacteria	Experimental	16 hours	EC50	>10,000 mg/l
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	68081-81-2	Bluegill	Experimental	96 hours	LC50	1.67 mg/l
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	68081-81-2	Green algae	Experimental	72 hours	EC50	7.4 mg/l
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	68081-81-2	Water flea	Experimental	48 hours	EC50	2.9 mg/l
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	68081-81-2	Green algae	Experimental	72 hours	NOEC	1.28 mg/l
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	68081-81-2	Rainbow trout	Experimental	72 days	NOEC	0.23 mg/l
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	68081-81-2	Water flea	Experimental	21 days	NOEC	1.18 mg/l
Cocoamidopropylbetaine	61789-40-0	Fathead minnow	Estimated	96 hours	LC50	1.11 mg/l
Cocoamidopropylbetaine	61789-40-0	Green algae	Estimated	72 hours	EC50	1.5 mg/l
Cocoamidopropylbetaine	61789-40-0	Water flea	Estimated	48 hours	EC50	1.9 mg/l
Cocoamidopropylbetaine	61789-40-0	Bacteria	Experimental	30 minutes	NOEC	>3,000 mg/l
Cocoamidopropylbetaine	61789-40-0	Green algae	Estimated	72 hours	NOEC	0.3 mg/l

Cocoamidopropylbetaine	61789-40-0	Rainbow trout	Estimated	37 days	NOEC	0.135 mg/l
Cocoamidopropylbetaine	61789-40-0	Water flea	Estimated	21 days	NOEC	0.32 mg/l
Lauryldimethylamine Oxide	1643-20-5	Green algae	Estimated	72 hours	ErC50	0.143 mg/l
Lauryldimethylamine Oxide	1643-20-5	Fathead minnow	Experimental	96 hours	LC50	2.67 mg/l
Lauryldimethylamine Oxide	1643-20-5	Invertebrate	Experimental	96 hours	EC50	8.2 mg/l
Lauryldimethylamine Oxide	1643-20-5	Water flea	Experimental	48 hours	EC50	3.1 mg/l
Lauryldimethylamine Oxide	1643-20-5	Green algae	Estimated	72 hours	NOEC	0.015 mg/l
Lauryldimethylamine Oxide	1643-20-5	Fathead minnow	Experimental	302 days	NOEC	0.42 mg/l
Lauryldimethylamine Oxide	1643-20-5	Water flea	Experimental	21 days	NOEC	0.7 mg/l
Lauryldimethylamine Oxide	1643-20-5	Bacteria	Experimental	16 hours	EC50	188.7 mg/l
Sodium Chloride	7647-14-5	Activated sludge	Experimental	N/A	NOEC	8,000 mg/l
Sodium Chloride	7647-14-5	Algae or other aquatic plants	Experimental	96 hours	EC50	2,430 mg/l
Sodium Chloride	7647-14-5	Bluegill	Experimental	96 hours	LC50	5,840 mg/l
Sodium Chloride	7647-14-5	Water flea	Experimental	48 hours	LC50	874 mg/l
Sodium Chloride	7647-14-5	Fathead minnow	Experimental	33 days	NOEC	252 mg/l
Sodium Chloride	7647-14-5	Water flea	Experimental	21 days	NOEC	314 mg/l
Sodium Mono-C10-16-Alkyl Sulfates	68585-47-7	Green algae	Experimental	72 hours	EC50	>20 mg/l
Sodium Mono-C10-16-Alkyl Sulfates	68585-47-7	Rainbow trout	Experimental	96 hours	LC50	3.6 mg/l
Sodium Mono-C10-16-Alkyl Sulfates	68585-47-7	Water flea	Experimental	48 hours	EC50	4.7 mg/l
Sodium Mono-C10-16-Alkyl Sulfates	68585-47-7	Fathead minnow	Estimated	42 days	NOEC	1.4 mg/l
Sodium Mono-C10-16-Alkyl Sulfates	68585-47-7	Water flea	Estimated	7 days	EC50	0.88 mg/l
Sodium Mono-C10-16-Alkyl Sulfates	68585-47-7	Green algae	Experimental	72 hours	EC10	5.4 mg/l
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16	68439-57-6	Diatom	Estimated	72 hours	EC50	1.97 mg/l

Alkene, Sodium Salts						
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	68439-57-6	Zebra Fish	Estimated	96 hours	LC50	4.2 mg/l
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	68439-57-6	Activated sludge	Experimental	3 hours	EC50	230 mg/l
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	68439-57-6	Water flea	Experimental	48 hours	EC50	4.53 mg/l
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	68439-57-6	Diatom	Estimated	72 hours	EC10	1.2 mg/l
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	68439-57-6	Water flea	Experimental	21 days	NOEC	2.4 mg/l
Methylchloroisothiazolinone	26172-55-4	Diatom	Experimental	72 hours	ErC50	0.007 mg/l
Methylchloroisothiazolinone	26172-55-4	Green algae	Experimental	72 hours	ErC50	0.027 mg/l
Methylchloroisothiazolinone	26172-55-4	Mysid Shrimp	Experimental	96 hours	LC50	0.282 mg/l
Methylchloroisothiazolinone	26172-55-4	Rainbow trout	Experimental	96 hours	LC50	0.19 mg/l
Methylchloroisothiazolinone	26172-55-4	Sheepshead Minnow	Experimental	96 hours	LC50	0.3 mg/l
Methylchloroisothiazolinone	26172-55-4	Water flea	Experimental	48 hours	EC50	0.16 mg/l
Methylchloroisothiazolinone	26172-55-4	Diatom	Experimental	48 hours	NOEC	0.00049 mg/l
Methylchloroisothiazolinone	26172-55-4	Fathead minnow	Experimental	36 days	NOEC	0.02 mg/l
Methylchloroisothiazolinone	26172-55-4	Green algae	Experimental	72 hours	NOEC	0.004 mg/l
Methylchloroisothiazolinone	26172-55-4	Water flea	Experimental	21 days	NOEC	0.0111 mg/l

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Alcohol Ethoxysulfate (Sodium Salt)	68585-34-2	Experimental Biodegradation	28 days	CO2 evolution	100 %CO2 evolution/THCO2 evolution	EC C.4.C. CO2 Evolution Test
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	68081-81-2	Experimental Biodegradation	29 days	CO2 evolution	85 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Cocoamidopropylbetaine	61789-40-0	Estimated Biodegradation	28 days	CO2 evolution	87.2 %CO2 evolution/THCO2 evolution	
Lauryldimethylamine Oxide	1643-20-5	Experimental Biodegradation	28 days	CO2 evolution	90 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Lauryldimethylamine Oxide	1643-20-5	Experimental Biodegradation	21 days	CO2 evolution	75 %CO2 evolution/THCO2 evolution	OECD 303A - Simulated Aerobic
Lauryldimethylamine Oxide	1643-20-5	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>1 years (t 1/2)	OECD 111 Hydrolysis func of pH
Sodium Chloride	7647-14-5	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Sodium Mono-C10-16-Alkyl Sulfates	68585-47-7	Experimental Biodegradation	28 days	Percent degraded	96 % degraded	OECD 301D - Closed bottle test
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	68439-57-6	Experimental Biodegradation	28 days	CO2 evolution	80 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Methylchloroisothiazolinone	26172-55-4	Experimental Biodegradation	29 days	CO2 evolution	62 %CO2 evolution/THCO2 evolution (does not pass 10-day window)	OECD 301B - Modified sturm or CO2
Methylchloroisothiazolinone	26172-55-4	Modeled Photolysis		Photolytic half-life (in air)	1.2 days (t 1/2)	Episuite™
Methylchloroisothiazolinone	26172-55-4	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>60 days (t 1/2)	OECD 111 Hydrolysis func of pH

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Alcohol Ethoxysulfate (Sodium Salt)	68585-34-2	Experimental Bioconcentration		Log Kow	0.3	OECD 123 log Kow slow stir
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	68081-81-2	Experimental BCF - Fish	192 hours	Bioaccumulation factor	2-987	OECD305-Bioconcentration
Cocoamidopro	61789-40-0	Data not	N/A	N/A	N/A	N/A

pylbetaine		available or insufficient for classification				
Lauryldimethyl amine Oxide	1643-20-5	Estimated Bioconcentration		Log Kow	<2.69	
Sodium Chloride	7647-14-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Sodium Mono-C10-16-Alkyl Sulfates	68585-47-7	Experimental Bioconcentration		Log Kow	0.78	
Sulfonic Acids, C14-16-Alkane Hydroxy and C14-16 Alkene, Sodium Salts	68439-57-6	Estimated Bioconcentration		Log Kow	-1.3	
Methylchloroisothiazolinone	26172-55-4	Analogous Compound BCF - Fish	42 days	Bioaccumulation factor	54	OECD305-Bioconcentration

12.4. Mobility in soil
Please contact manufacturer for more details

12.5 Other adverse effects
No information available.

The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

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. 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

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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