

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

3MTM AvagardTM Antiseptic Hand & Body Wash (Chlorhexidine Gluconate 2% w/w)

Product Identification Numbers

AH-1000-1011-7 AH-1000-1012-5

1.2. Recommended use and restrictions on use

Recommended use

For antiseptic hand and body washing - Topical Antiseptic Solution with Moisturiser and Emollient . FOR PROFESSIONAL HEALTHCARE USE

For Professional use only

1.3. Supplier's details

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

1.4. Emergency telephone number

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

SECTION 2: Hazard identification

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.

Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

2.1. Classification of the substance or mixture

Flammable Liquids: Category 3 Eye irritation: Category 2 Carcinogenicity: Category 2 Reproductive Toxicity: Category 2 Hazardous to the aquatic environment acute: Category 1 Hazardous to the aquatic environment chronic: Category 2 2.2. Label elements SIGNAL WORD Warning

Symbols:

Flame |Exclamation mark |Health Hazard |Environment |

Pictograms



HAZARD STATEMENTS:	
H226	Flammable liquid and vapour.

H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P264	Wash thoroughly after handling.
P273	Avoid release to the environment.
P280E	Wear protective gloves.
Response	
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P337 + P313	IF eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.
P391	Collect spillage.
Storage	
P403 + P235 P405	Store in a well-ventilated place. Keep cool. Store locked up.

Disposal

P501

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

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
Water	7732-18-5	60 - 100
Propan-1-ol	71-23-8	5 - 10
Glycerin	56-81-5	1 - 5
Chlorhexdine Gluconate	18472-51-0	1 - 5
Coconut Oil Diethanolamide	8051-30-7	1 - 5
Decyl Glucoside	54549-25-6	1 - 5
2-Phenoxyethanol	122-99-6	0.5 - 1.5
Amines, Coco Alkyldimethyl, N-Oxides	61788-90-7	0.5 - 1.5
Diethanolamine	111-42-2	0.05 - 0.15

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Remove person to fresh air. If you are concerned, get medical advice.

Skin contact

Wash with soap and water. If you are concerned, get medical advice.

Eye contact

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention. A product risk assessment is recommended to determine if eye wash facilities may be required when using this product in the workplace.

If swallowed

Rinse mouth. Do not induce vomiting. Get immediate medical attention.

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

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

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

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

<u>Substance</u>	<u>Condition</u>
Hydrocarbons.	During combustion.
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

5.4. Hazchem code: Not applicable.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. 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. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. 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 using non-sparking tools. Place in a metal 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

Avoid eye contact. For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not 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.) Wear low static or properly grounded shoes. Use personal protective equipment (eg. gloves, respirators...) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from oxidising agents.

7.3. Certified handler

Not required

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient Diethanolamine	CAS Nbr 111-42-2	Agency ACGIH	Limit type TWA(inhalable fraction and vapor):1 mg/m3	Additional comments A3: Confirmed animal carcinogen, Danger of cutaneous absorption
Diethanolamine	111-42-2	New Zealand WES	TWA(8 hours): 13 mg/m3 (3 ppm)	Skin
Glycerin	56-81-5	New Zealand WES	TWA(as mist)(8 hours):10 mg/m3	
Propan-1-ol	71-23-8	ACGIH	TWA:100 ppm	A4: Not class. as human carcinogin
Propan-1-ol	71-23-8	New Zealand WES	TWA(8 hours): 492 mg/m3 (200 ppm); STEL(15 minutes): 614 mg/m3 (250 ppm)	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

Use explosion-proof ventilation equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Eye protection not required. 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. No chemical protective gloves are required.

Gloves made from the following material(s) are recommended: Butyl rubber. Nitrile rubber.

Respiratory protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require 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

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:	Viscous.		
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Colour	Aqua		
Odour	Fresh Odour, Fruity Odour		
Odour threshold	No data available.		
рН	5 - 6		
Melting point/Freezing point	No data available.		
Boiling point/Initial boiling point/Boiling range	90 - 105 °C		
Flash point	52.8 °C [Details: No sustained combustion]		
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	No data available.		
Relative density	0.98 - 1.04 [<i>Ref Std</i> :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	500 - 1,500 mPa-s		
Volatile organic compounds (VOC)	No data available.		
Percent volatile	No data available.		
VOC less H2O & exempt solvents	No data available.		
Kinematic Viscosity	No data available.		

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 Not determined

10.5 Incompatible materials Not determined

10.6 Hazardous decomposition products

Substance None known. **Condition**

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

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin contact

Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced) in sensitive people: Signs/symptoms may include redness, swelling, blistering, and itching. May cause additional health effects (see below).

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. May cause additional health effects (see below).

Additional Health Effects:

Reproductive/Developmental Toxicity:

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

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Inhalation- Vapor(4 hr)		No data available; calculated ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Propan-1-ol	Dermal	Rabbit	LD50 4,000 mg/kg
Propan-1-ol	Inhalation- Vapor (4 hours)	Rat	LC50 > 34 mg/l
Propan-1-ol	Ingestion	Rat	LD50 estimated to be 2,000 - 5,000 mg/kg
Chlorhexdine Gluconate	Dermal	Rabbit	LD50 > 5,000 mg/kg
Chlorhexdine Gluconate	Ingestion	Rat	LD50 2,000 mg/kg
Glycerin	Dermal	Rabbit	LD50 estimated to be > 5,000 mg/kg
Glycerin	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
Amines, Coco Alkyldimethyl, N-Oxides	Dermal		LD50 estimated to be 2,000 - 5,000 mg/kg
Amines, Coco Alkyldimethyl, N-Oxides	Ingestion	Rat	LD50 > 2,000 mg/kg
Diethanolamine	Dermal	Rabbit	LD50 8,180 mg/kg
Diethanolamine	Ingestion	Rat	LD50 1,410 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Propan-1-ol	Rabbit	Minimal irritation
Chlorhexdine Gluconate	Rabbit	No significant irritation
Glycerin	Rabbit	No significant irritation
2-Phenoxyethanol	Rabbit	No significant irritation
Amines, Coco Alkyldimethyl, N-Oxides	Professio	Mild irritant
	nal	
	judgemen	
	t	
Diethanolamine	Rabbit	Irritant

Serious Eye Damage/Irritation

Name	Species	Value
Propan-1-ol	Rabbit	Severe irritant
Chlorhexdine Gluconate	Rabbit	Corrosive
Glycerin	Rabbit	No significant irritation
2-Phenoxyethanol	Rabbit	Corrosive
Amines, Coco Alkyldimethyl, N-Oxides	Professio	Corrosive
	nal	
	judgemen	
	t	
Diethanolamine	Rabbit	Corrosive

Sensitisation:

Skin Sensitisation

Name	Species	Value
Propan-1-ol	Guinea	Not classified
	pig	
Chlorhexdine Gluconate	Human	Some positive data exist, but the data are not
	and	sufficient for classification

	animal	
Glycerin	Guinea	Not classified
	pig	
2-Phenoxyethanol	Guinea	Not classified
	pig	
Amines, Coco Alkyldimethyl, N-Oxides	similar	Not classified
	compoun	
	ds	
Diethanolamine	Human	Not classified
	and	
	animal	

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
Propan-1-ol	In Vitro	Some positive data exist, but the data are not sufficient for classification
Chlorhexdine Gluconate	In Vitro	Not mutagenic
Chlorhexdine Gluconate	In vivo	Not mutagenic
2-Phenoxyethanol	In Vitro	Not mutagenic
2-Phenoxyethanol	In vivo	Not mutagenic
Diethanolamine	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Propan-1-ol	Ingestion	Rat	Some positive data exist, but the data are not sufficient for classification
Chlorhexdine Gluconate	Ingestion	Multiple animal species	Not carcinogenic
Glycerin	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification
2-Phenoxyethanol	Ingestion	Multiple animal species	Not carcinogenic
Diethanolamine	Dermal	Mouse	Carcinogenic.

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Propan-1-ol	Inhalation	Not classified for male reproduction	Rat	NOAEL 8.6 mg/l	6 weeks
Propan-1-ol	Inhalation	Not classified for development	Rat	NOAEL 8.6 mg/l	during gestation
Chlorhexdine Gluconate	Ingestion	Not classified for development	Rat	NOAEL 30 mg/kg/day	during gestation
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
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	2 generation

				3,700 mg/kg/day	
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
Diethanolamine	Ingestion	Not classified for male reproduction	Rat	NOAEL 128 mg/kg/day	1 generation
Diethanolamine	Dermal	Not classified for development	Rabbit	NOAEL 100 mg/kg/day	during organogenesis
Diethanolamine	Inhalation	Not classified for development	Rat	NOAEL 0.05 mg/l	during organogenesis
Diethanolamine	Ingestion	Toxic to female reproduction	Rat	NOAEL 38 mg/kg/day	1 generation
Diethanolamine	Ingestion	Toxic to development	Rat	NOAEL 38 mg/kg/day	1 generation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Propan-1-ol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Mouse	NOAEL 5 mg/l	4 hours
Propan-1-ol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL Not available	
Propan-1-ol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	NOAEL Not available	
Chlorhexdine Gluconate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
2-Phenoxyethanol	Inhalation	respiratory irritation	May cause respiratory irritation	official classifica tion	NOAEL Not available	
Amines, Coco Alkyldimethyl, N-Oxides	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Diethanolamine	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL not available	
Diethanolamine	Ingestion	kidney and/or bladder	May cause damage to organs	Rat	NOAEL 200 mg/kg	not applicable
Diethanolamine	Ingestion	central nervous system depression	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 200 mg/kg	not applicable
Diethanolamine	Ingestion	liver	Not classified	Rat	NOAEL 1,600 mg/kg	not applicable

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Propan-1-ol	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 70 mg/kg/day	83 weeks
Propan-1-ol	Ingestion	liver	Not classified	Rat	LOAEL 70 mg/kg/day	83 weeks
Chlorhexdine Gluconate	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL 0.89 mg/kg/day	1 years
Chlorhexdine Gluconate	Ingestion	immune system	Not classified	Rabbit	NOAEL 71 mg/kg/day	2 years
Chlorhexdine Gluconate	Ingestion	hematopoietic system kidney	Not classified	Rat	NOAEL 71 mg/kg/day	2 years

		and/or bladder				
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
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
Diethanolamine	Dermal	hematopoietic system	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 32 mg/kg/day	13 weeks
Diethanolamine	Dermal	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 8 mg/kg/day	2 years
Diethanolamine	Dermal	liver	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Inhalation	liver kidney and/or bladder	Not classified	Rat	NOAEL 0.03 mg/l	13 weeks
Diethanolamine	Ingestion	hematopoietic system	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 14 mg/kg/day	13 weeks
Diethanolamine	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 57 mg/kg/day	13 weeks
Diethanolamine	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL not available	13 weeks
Diethanolamine	Ingestion	liver	Not classified	Rat	NOAEL 436 mg/kg/day	13 weeks

Aspiration Hazard

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

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

SECTION 12: Ecological information

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

12.1. Toxicity Ecotoxic to the aquatic environment. Acute Aquatic Toxicity: Category 1 Chronic Aquatic Toxicity: Category 2

No product test data available.

Material	CAS Number	Organism	Туре	Exposure	Test endpoint	Test result
Propan-1-ol	71-23-8	Activated sludge	Experimental	3 hours	IC50	>1,000 mg/l
Propan-1-ol	71-23-8	Algae or other aquatic plants	Experimental	96 hours	EC50	4,480 mg/l
Propan-1-ol	71-23-8	Fathead minnow	Experimental	96 hours	LC50	4,555 mg/l
Propan-1-ol	71-23-8	Fish	Experimental	96 hours	LC50	3,000 mg/l
Propan-1-ol	71-23-8	Water flea	Experimental	48 hours	EC50	3,642 mg/l
Propan-1-ol	71-23-8	Water flea	Experimental	21 days	NOEC	100 mg/l
Chlorhexdine Gluconate	18472-51-0	Activated sludge	Experimental	3 hours	EC50	25 mg/l
Chlorhexdine Gluconate	18472-51-0	Green algae	Experimental	72 hours	ErC50	0.081 mg/l
Chlorhexdine Gluconate	18472-51-0	Water flea	Experimental	48 hours	EC50	0.087 mg/l
Chlorhexdine Gluconate	18472-51-0	Zebra Fish	Experimental	96 hours	LC50	2.08 mg/l
Chlorhexdine Gluconate	18472-51-0	Green algae	Experimental	72 hours	NOEC	0.007 mg/l
Chlorhexdine Gluconate	18472-51-0	Water flea	Experimental	21 days	NOEC	0.021 mg/l
Coconut Oil Diethanolamid e	8051-30-7	Bacteria	Analogous Compound	30 minutes	NOEC	1,000 mg/l
Coconut Oil Diethanolamid e	8051-30-7	Green algae	Analogous Compound	96 hours	EbC50	2.2 mg/l
Coconut Oil Diethanolamid e	8051-30-7	Water flea	Analogous Compound	48 hours	EC50	2.15 mg/l
Coconut Oil Diethanolamid e	8051-30-7	Zebra Fish	Analogous Compound	96 hours	LC50	3.6 mg/l
Coconut Oil Diethanolamid e	8051-30-7	Green algae	Analogous Compound	72 hours	NOEC	0.32 mg/l
Coconut Oil Diethanolamid e	8051-30-7	Water flea	Analogous Compound	21 days	NOEC	0.07 mg/l
Decyl Glucoside	54549-25-6	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
2- Phenoxyethano	122-99-6	Activated sludge	Experimental	30 minutes	EC50	>1,000 mg/l
2- Phenoxyethano	122-99-6	Fathead minnow	Experimental	96 hours	LC50	344 mg/l
2-	122-99-6	Green algae	Experimental	72 hours	EC50	>100 mg/l

Phenoxyethano	1					
1						
2- Phenoxyethano	122-99-6	Scud	Experimental	96 hours	LC50	357 mg/l
2- Phenoxyethano	122-99-6	Water flea	Experimental	48 hours	EC50	>500 mg/l
2- Phenoxyethano	122-99-6	Fathead minnow	Experimental	34 days	NOEC	24 mg/l
2- Phenoxyethano	122-99-6	Green algae	Experimental	72 hours	NOEC	46 mg/l
2- Phenoxyethano	122-99-6	Water flea	Experimental	21 days	NOEC	9.43 mg/l
Amines, Coco Alkyldimethyl, N-Oxides	61788-90-7	Bacteria	Experimental	3 hours	EC50	240 mg/l
Amines, Coco Alkyldimethyl, N-Oxides	61788-90-7	Green algae	Experimental	72 hours	EC50	0.29 mg/l
Amines, Coco Alkyldimethyl, N-Oxides	61788-90-7	Water flea	Experimental	48 hours	EC50	2.9 mg/l
Amines, Coco Alkyldimethyl, N-Oxides	61788-90-7	Zebra Fish	Experimental	96 hours	LC50	1 mg/l
Amines, Coco Alkyldimethyl, N-Oxides	61788-90-7	Green algae	Experimental	72 hours	NOEC	0.08 mg/l
Diethanolamin e	111-42-2	Fathead	Experimental	96 hours	LC50	100 mg/l
Diethanolamin e	111-42-2	Green algae	Experimental	72 hours	EC50	9.5 mg/l
Diethanolamin e	111-42-2	Water flea	Experimental	48 hours	LC50	2.15 mg/l
Diethanolamin e	111-42-2	Green algae	Experimental	72 hours	NOEC	0.6 mg/l
Diethanolamin e	111-42-2	Water flea	Experimental	21 days	NOEC	0.78 mg/l

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Propan-1-ol	71-23-8	Experimental	20 days	BOD	73 %BOD/ThO	OECD 301D - Closed
_		Biodegradation	-		D	bottle test
Chlorhexdine	18472-51-0	Experimental	28 days	Dissolv.	71 % removal	OECD 301A - DOC
Gluconate		Biodegradation	-	Organic	of DOC	Die Away Test
		_		Carbon Deplet		-
Coconut Oil	8051-30-7	Analogous	28 days	BOD	71 %BOD/ThO	OECD 301D - Closed
Diethanolamid		Compound			D	bottle test
e		Biodegradation				

Decyl	54549-25-6	Modeled	28 days	BOD	89 %BOD/ThO	Catalogic™
Glucoside		Biodegradation			D	
Glycerin	56-81-5	Experimental	14 days	BOD	63 %BOD/ThO	OECD 301C - MITI
		Biodegradation			D	test (I)
2-	122-99-6	Experimental	28 days	BOD	90 %BOD/ThO	OECD 301F -
Phenoxyethano		Biodegradation			D	Manometric
1						respirometry
Amines, Coco	61788-90-7	Experimental	28 days	CO2 evolution	80 %CO2	ISO 14593 Inorg C
Alkyldimethyl,		Biodegradation			evolution/THC	Headspace
N-Oxides					O2 evolution	
Diethanolamin	111-42-2	Experimental	10 days	BOD	72 %BOD/ThO	OECD 301D - Closed
e		Biodegradation			D	bottle test
Diethanolamin	111-42-2	Experimental	9 days	Dissolv.	98 % removal	OECD 302C - Modified
e		Biodegradation		Organic	of DOC	MITI (II)
				Carbon Deplet		

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Propan-1-ol	71-23-8	Experimental Bioconcentrati on		Log Kow	0.2	
Chlorhexdine Gluconate	18472-51-0	Experimental Bioconcentrati on		Log Kow	-1.81	OECD 107 log Kow shke flsk mtd
Coconut Oil Diethanolamid e	8051-30-7	Modeled Bioconcentrati on		Bioaccumulatio n factor	5.8	Catalogic™
Decyl Glucoside	54549-25-6	Modeled Bioconcentrati on		Bioaccumulatio n factor	2.5	Catalogic™
Glycerin	56-81-5	Experimental Bioconcentrati on		Log Kow	-1.76	
2- Phenoxyethano 1	122-99-6	Experimental Bioconcentrati on		Log Kow	1.2	EC A.8 Partition Coefficient
Amines, Coco Alkyldimethyl, N-Oxides	61788-90-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Diethanolamin e	111-42-2	Experimental Bioconcentrati on		Log Kow	-2.18	OECD 107 log Kow shke flsk mtd

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal 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.
Special Instructions: NZS 5433 2.3.1.2 (a). This product is not classified as a flammable liquid as the product has a flash point of more than 35°C and does not sustain combustion when tested according to the UN Manual of Tests and Criteria, Part III, subsection 35.5.2 Sustained Combustibility Test.
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.
Special Instructions: Not restricted as per IATA 3.3.1.3 (a). This product is not classified as a flammable liquid as the product has a flash point of more than 35°C and does not sustain combustion when tested according to the UN Manual of Tests and Criteria, Part III, subsection 35.5.2 Sustained Combustibility Test.

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.
Special Instructions: Not restricted per IMDG Code 2.3.1.3.1. This product is not classified as a flammable liquid as the product has a flash point of more than 35°C and does not sustain combustion when tested according to the UN Manual of Tests and Criteria, Part III, subsection 35.5.2 Sustained Combustibility Test.

SECTION 15: Regulatory information

HSNO Approval numberHSR002552Group standard nameCosmetic Products Group Standard 2020HSNO Hazard classificationRefer 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

2017					
Certified handler	Not required				
Location Compliance Certificate	500 L (closed containers greater than 5 L) 1,500 L (closed containers up to and including 5 L) 250 L (open containers)				
Hazardous atmosphere zone	100 L (closed containers) 25 L (decanting) 5 L (open occasionally) 1 L (open containers in continuous use)				
Fire extinguishers	Two required for 500 L				
Emergency response plan	100 L (for Hazardous to the aquatic environment Category 1 substances); or 1				
	000 L (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 (for all other Flammable liquid Category 3 substances)				
Secondary containment	100 L (for Hazardous to the aquatic environment Category 1 substances); or 1				
	000 L (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 (for all other Flammable liquid Category 3 substances)				
Tracking	Not required				
Warning signage	100 L (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L (for all other Flammable liquid Category 3 substances)				
	to a first an other r funniture riquit cutegory 5 substances)				

SECTION 16: Other information

Revision information:

Complete document review.

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Key to abbreviations and acronyms

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

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