



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances and New Organisms Act 1996 (HSNO Act) and Regulations, as amended.

SECTION 1: Identification

1.1. Product identifier

3M™ Avagard™ 9241 Antiseptic Surgical Hand Scrub with Chlorhexidine Gluconate 4% w/w

Product Identification Numbers

AH-1000-1318-6 AH-1000-1319-4 AH-1000-1320-2

1.2. Recommended use and restrictions on use

Recommended use

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

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

2.1. Classification of the substance or mixture

Classified as hazardous according to the New Zealand, Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 as amended.

Classified as a Dangerous Good according to; New Zealand, Land Transport Rule: Dangerous Goods 2005 (Rule 45001/1) as amended, NZS 5433:2012 Transport of Dangerous Goods on Land, UN Model Regulations on the Transport of Dangerous Goods, International Maritime Dangerous Goods Code and IATA Dangerous Goods Regulations. For transport classification, refer to SECTION 14: Transport Information.

HSNO classification

3.1C Flammable liquid
6.4A Irritating to the eye
6.5B Skin sensitiser
6.7B Suspected human carcinogen

3M™ Avagard™ 9241 Antiseptic Surgical Hand Scrub with Chlorhexidine Gluconate 4% w/w

9.1A Aquatic toxicity

2.2. Label elements

SIGNAL WORD

WARNING!

Symbols:

Flame | Health Hazard | Exclamation mark | Environment |

Pictograms



HAZARD STATEMENTS:

H226	Flammable liquid and vapour.
H320	Causes eye irritation.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280E	Wear protective gloves.
P281	Use personal protective equipment as required.
P273	Avoid release to the environment.

Response:

P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P370 + P378G	In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

Disposal:

P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.
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SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
Water	7732-18-5	60 - 100
Chlorohexidine digluconate	18472-51-0	3 - 7
D-glucopyranoside, decyl	54549-25-6	3 - 7
Propan-1-ol	71-23-8	3 - 7
Coconut oil diethanolamide	8051-30-7	1 - 3
2-Phenoxyethanol	122-99-6	0.1 - 1
Glycerol	56-81-5	0.1 - 1
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 signs/symptoms develop, get medical attention.

Skin contact

No need for first aid is anticipated. If signs/symptoms persist, get medical attention.

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

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.

Hazardous Decomposition or By-Products

<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.

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 vapours, in accordance with good industrial hygiene practice. Warning: A motor could be an ignition source and could cause flammable gases or vapours 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.

6.3. Methods and material for containment and cleaning up

3M™ Avagard™ 9241 Antiseptic Surgical Hand Scrub with Chlorhexidine Gluconate 4% w/w

Contain spill. Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR-AFFF type foam is recommended. 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 an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

Refer to Section 15: HSNO Controls for more information.

7.1. Precautions for safe handling

Avoid eye contact. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. 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 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. Approved handler test certificate

Not required

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Diethanolamine	111-42-2	ACGIH	TWA(inhalable fraction and vapor):1 mg/m ³	Skin Notation, A3: Confirmed animal carcin.
Diethanolamine	111-42-2	New Zealand WES	TWA(8 hours): 13 mg/m ³ (3 ppm)	Skin Notation
2-Phenoxyethanol	122-99-6	CMRG	TWA:25 ppm	Skin Notation
Glycerol	56-81-5	New Zealand WES	TWA(as mist)(8 hours):10 mg/m ³	
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/m ³ (200 ppm); STEL(15 minutes): 614 mg/m ³ (250 ppm)	Skin Notation

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 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.

Skin/hand protection

No chemical protective gloves are required.

Respiratory protection

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

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	Liquid.
Specific Physical Form:	Viscous.
Appearance/Odour	Clear to Slightly Hazy, pink Viscous liquid with fresh fruity odour
Odour threshold	<i>No data available.</i>
pH	4 - 7
Melting point/Freezing point	<i>No data available.</i>
Boiling point/Initial boiling point/Boiling range	± 100 °C [<i>Details:By Distillation</i>]
Flash point	53.9 °C [<i>Test Method:Pensky-Martens Closed Cup</i>] [<i>Details:No sustained combustion</i>]
Evaporation rate	<i>No data available.</i>
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	<i>No data available.</i>
Flammable Limits(UEL)	<i>No data available.</i>
Vapour pressure	<i>No data available.</i>
Vapour density	<i>No data available.</i>
Density	<i>No data available.</i>
Relative density	0.98 - 1.04 [<i>Ref Std:WATER=1</i>]
Water solubility	<i>No data available.</i>
Solubility- non-water	<i>No data available.</i>
Partition coefficient: n-octanol/water	<i>No data available.</i>
Autoignition temperature	<i>No data available.</i>
Decomposition temperature	<i>No data available.</i>
Viscosity	0.5 - 1.5 Pa-s
Volatile organic compounds (VOC)	<i>No data available.</i>
Percent volatile	<i>No data available.</i>
VOC less H2O & exempt solvents	<i>No data available.</i>

SECTION 10: Stability and reactivity**10.1 Reactivity**

3M™ Avagard™ 9241 Antiseptic Surgical Hand Scrub with Chlorhexidine Gluconate 4% w/w

This material is considered to be non reactive under normal use conditions

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

Heat.

Light.

Sparks and/or flames.

10.5 Incompatible materials

Strong acids.

Strong oxidising agents.

Strong oxidising agents.

10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
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None known.	
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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): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye contact

Moderate eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

Carcinogenicity:

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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
Glycerol	Dermal	Rabbit	LD50 estimated to be > 5,000 mg/kg
Glycerol	Ingestion	Rat	LD50 > 5,000 mg/kg
2-Phenoxyethanol	Dermal	Rabbit	LD50 > 2,000 mg/kg
2-Phenoxyethanol	Ingestion	Rat	LD50 1,260 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
Glycerol	Rabbit	No significant irritation
Diethanolamine	Rabbit	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
Propan-1-ol	Rabbit	Severe irritant
Glycerol	Rabbit	No significant irritation
Diethanolamine	Rabbit	Severe irritant

Skin Sensitisation

Name	Species	Value
Propan-1-ol	Guinea pig	Not sensitizing
Glycerol	Guinea pig	Not sensitizing
Diethanolamine	Human and animal	Not sensitizing

Respiratory Sensitisation

Name	Species	Value
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Germ Cell Mutagenicity

Name	Route	Value
Propan-1-ol	In Vitro	Some positive data exist, but the data are not sufficient for classification
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
Glycerol	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification
Diethanolamine	Dermal	Mouse	Carcinogenic.

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Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Propan-1-ol	Inhalation	Some positive male reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL 8.6 mg/l	6 weeks
Propan-1-ol	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 8.6 mg/l	during gestation
Glycerol	Ingestion	Not toxic to female reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerol	Ingestion	Not toxic to male reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerol	Ingestion	Not toxic to development	Rat	NOAEL 2,000 mg/kg/day	2 generation
Diethanolamine	Ingestion	Not toxic to female reproduction	Rat	NOAEL 436 mg/kg/day	13 weeks
Diethanolamine	Ingestion	Some positive male reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL 97 mg/kg/day	13 weeks
Diethanolamine	Dermal	Some positive developmental data exist, but the data are not sufficient for classification	Rabbit	NOAEL 100 mg/kg/day	during organogenesis
Diethanolamine	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 50 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
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	
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	Some positive data exist, but the data are not sufficient for classification	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	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 70 mg/kg/day	83 weeks
Propan-1-ol	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 70 mg/kg/day	83 weeks
Glycerol	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for	Rat	NOAEL 3.91 mg/l	14 days

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			classification			
Glycerol	Inhalation	heart liver kidney and/or bladder	All data are negative	Rat	NOAEL 3.91 mg/l	14 days
Glycerol	Ingestion	endocrine system hematopoietic system liver kidney and/or bladder	All data are negative	Rat	NOAEL 10,000 mg/kg/day	2 years
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	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Inhalation	liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	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	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL not available	13 weeks
Diethanolamine	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 436 mg/kg/day	13 weeks

Aspiration Hazard

Name	Value

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.

9.1A Aquatic toxicity

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
2-Phenoxyethanol	122-99-6	Water flea	Laboratory	48 hours	EC50	488 mg/l
2-Phenoxyethanol	122-99-6	Fathead minnow	Laboratory	96 hours	LC50	344 mg/l
Chlorhexidine	18472-51-0	Zebra Fish	Experimental	96 hours	LC50	10.4 mg/l

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digluconate						
Chlorhexidine digluconate	18472-51-0	Water flea	Experimental	48 hours	EC50	<0.1 mg/l
Chlorhexidine digluconate	18472-51-0	Green algae	Experimental	72 hours	EC50	0.011 mg/l
Diethanolamine	111-42-2	Fathead minnow	Experimental	96 hours	LC50	100 mg/l
Diethanolamine	111-42-2	Green algae	Experimental	96 hours	EC50	2.1 mg/l
Diethanolamine	111-42-2	Water flea	Experimental	48 hours	EC50	2.15 mg/l
Glycerol	56-81-5	Water flea	Experimental	24 hours	EC50	>10,000 mg/l
Glycerol	56-81-5	Goldfish	Experimental	24 hours	LC50	>5,000 mg/l
Propan-1-ol	71-23-8	Fish	Experimental	96 hours	LC50	3,000 mg/l
Propan-1-ol	71-23-8	Fathead minnow	Experimental	96 hours	LC50	4,480 mg/l
Propan-1-ol	71-23-8	Algae	Experimental	96 hours	EC50	4,480 mg/l
Propan-1-ol	71-23-8	Water flea	Experimental	48 hours	EC50	3,642 mg/l
Diethanolamine	111-42-2	Green algae	Experimental	72 hours	Effect Concentration 10%	2.5 mg/l
Diethanolamine	111-42-2	Water flea	Experimental	21 days	NOEC	0.78 mg/l
Coconut oil diethanolamide	8051-30-7		Data not available or insufficient for classification			
D-glucopyranoside, decyl	54549-25-6		Data not available or insufficient for classification			

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Chlorhexidine digluconate	18472-51-0	Estimated Biodegradation	28 days	BOD	0 % weight	Other methods
Glycerol	56-81-5	Experimental Biodegradation	14 days	BOD	63 % weight	OECD 301C - MITI test (I)
D-glucopyranoside, decyl	54549-25-6	Estimated Biodegradation	28 days	BOD	86 % weight	Other methods
2-Phenoxyethanol	122-99-6	Laboratory Biodegradation	28 days	Theoretical Oxygen Demand	90 % weight	OECD 301F - Manometric respirometry
Diethanolamine	111-42-2	Experimental Biodegradation	10 days	BOD	72 % weight	OECD 301D - Closed bottle test
Propan-1-ol	71-23-8	Experimental Photolysis		Photolytic half-life (in air)	5.8 days (t 1/2)	Other methods
Propan-1-ol	71-23-8	Experimental Biodegradation	20 days	BOD	73 % weight	OECD 301D - Closed bottle test
Coconut oil diethanolamide	8051-30-7	Data not available or insufficient for	N/A	N/A	N/A	N/A

3M™ Avagard™ 9241 Antiseptic Surgical Hand Scrub with Chlorhexidine Gluconate 4% w/w

		classification				
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12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Chlorohexidine digluconate	18472-51-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Glycerol	56-81-5	Experimental Bioconcentration		Log Kow	-1.76	Other methods
D-glucopyranoside, decyl	54549-25-6	Estimated Bioconcentration		Log Kow	1.92	Estimated: Octanol-water partition coefficient
2-Phenoxyethanol	122-99-6	Laboratory Bioconcentration		Log Kow	1.16	Other methods
Diethanolamine	111-42-2	Experimental Bioconcentration		Log Kow	-2.18	
Propan-1-ol	71-23-8	Experimental Bioconcentration		Log Kow	0.25	Other methods
Coconut oil diethanolamide	8051-30-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1. Disposal methods**

See Section 11.1 Information on toxicological effects

Incinerate in a permitted waste incineration facility. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. 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

AH-1000-1318-6, AH-1000-1319-4

3M™ Avagard™ 9241 Antiseptic Surgical Hand Scrub with Chlorhexidine Gluconate 4% w/w

NEW ZEALAND LAND TRANSPORT:

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (chlorhexidine digluconate), 9, III, LIMITED QUANTITY

IATA: International Air Transport Association

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (chlorhexidine digluconate), 9, III

IMO: International Maritime Organization

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (chlorhexidine digluconate), 9, III, LIMITED QUANTITY, MARINE POLLUTANT, (chlorhexidine digluconate)

AH-1000-1320-2

NEW ZEALAND LAND TRANSPORT:

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (chlorhexidine digluconate), 9, III, LIMITED QUANTITY

IATA: International Air Transport Association

FORBIDDEN BY AIR, 3M PACKAGING DOES NOT MEET REGULATORY AGENCY REQUIREMENTS

IMO: International Maritime Organization

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (chlorhexidine digluconate), 9, III, LIMITED QUANTITY, MARINE POLLUTANT, (chlorhexidine digluconate)

Note- This product is not classified as a flammable liquid as, although it has a flash point of less than 60°C, it 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 number HSR002552
Group standard name Cosmetic Products Group Standard 2006
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.

HSNO Controls

Approved handler test certificate	Not required
Location and transit Depot certification test	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 a HSNO 9.1A substance); or 1,000 L (for a HSNO 6.1D, 6.5A, 6.5B, 9.1B or 9.1C substance); or 10,000 L (for all other HSNO 3.1C substances)
Secondary containment	100 L (for a HSNO 9.1A substance); or 1,000 L (for a HSNO 6.1D, 6.5A, 6.5B, 9.1B or 9.1C substance); or 10,000 L (for all other HSNO 3.1C substances)
Tracking	Not required
Warning signage	100 L (for a HSNO 9.1A substance); or 1,000 L (for all other HSNO 3.1C substances)

SECTION 16: Other information

Revision information:

Revision Changes:

Sections 3 and 9: Odor, color, grade information information was modified.
Section 2: Ingredient table information was modified.
Section 3: Composition table % by Wt Column heading information was modified.
Section 1: Product identification numbers heading information was modified.
Section 1: Product identification numbers information was modified.
Section 9: Relative density information information was modified.
Section 10: Materials to avoid physical property information was modified.
Section 10: Conditions to avoid physical property information was modified.
Section 9: Flammability (solid, gas) information information was modified.
Section 9: Flash point information information was modified.
Section 9: Density information information was modified.
Section 9: Property description for optional properties information was modified.
Section 1: Initial issue message information was modified.
Section 8: Occupational exposure limit table information was modified.
OEL Reg Agency Desc information was modified.
Section 11: Acute Toxicity table information was modified.
Section 11: Carcinogenicity Table information was modified.
Section 11: Serious Eye Damage/Irritation Table information was modified.
Section 11: Germ Cell Mutagenicity Table information was modified.
Section 11: Skin Sensitization Table information was modified.
Section 11: Reproductive Toxicity Table information was modified.
Section 11: Skin Corrosion/Irritation Table information was modified.
Section 11: Target Organs - Repeated Table information was modified.
Section 11: Target Organs - Single Table information was modified.
Section 11: Health Effects - Eye information information was modified.
Section 11: Health Effects - Skin information information was modified.
Section 5: Fire - Extinguishing media information information was modified.
Section 6: Accidental release personal information information was modified.
Section 6: Accidental release environmental information information was modified.
Section 6: Accidental release clean-up information information was modified.
Section 7: Precautions safe handling information information was modified.
Section 7: Conditions safe storage information was modified.
Section 8: Personal Protection - Skin/hand information information was modified.
Section 10: Hazardous decomposition or by-products table information was modified.
Section 13: 13.1. Waste disposal note information was modified.
Section 13: Standard Phrase Category Waste GHS information was modified.
Section 4: First aid for eye contact information information was modified.
Section 4: First aid for skin contact information information was modified.
Section 4: First aid for inhalation information information was modified.
Section 4: First aid for ingestion (swallowing) information information was modified.
Copyright information was modified.
Header section: NZ compliance statement information was modified.
Section 7: Refer to Section 15 - HSNO control statement information was modified.
Section 15: Refer to section 2 heading information was modified.
Section 15: Location & Transit Depot Test Certificate. information was modified.
Section 15: Hazardous Atmosphere Zone. information was modified.
Section 15: Emergency Response Plan. information was modified.
Section 15: Secondary Containment. information was modified.
Section 15: Warning Signage. information was modified.
Section 2: Classification statements information was modified.
HSNO Classification. information was modified.
HSNO Classification. information was modified.
Section 2: NZ Pictograms information was modified.

Section 2: NZ Phys/Chem Hazard Statements information was modified.
Section 2: NZ Health Hazard Statements information was modified.
Environmental Hazard Statements information was modified.
Section 2: NZ Precautionary Statements - Prevention information was modified.
Section 2: NZ Precautionary Statements - Response information was modified.
Section 2: NZ Classification statements (Transportation) information was modified.
Section 8: Eye/face protection information information was added.
Section 10: Hazardous decomposition products table Condition column header information was added.
Section 10: Hazardous decomposition products table Substance column header information was added.
Section 9: Specific physical form information information was added.
Section 9: Specific physical form heading information was added.
Section 9: Solubility in water value information was added.
Section 12: Component ecotoxicity information information was added.
Section 12: Persistence and Degradability information information was added.
Section 12: Biocumulative potential information information was added.
Section 12: Component Ecotoxicity table Material column header information was added.
Section 12: Component Ecotoxicity table CAS No column header information was added.
Section 12: Component Ecotoxicity table Organism column header information was added.
Section 12: Component Ecotoxicity table Type column header information was added.
Section 12: Component Ecotoxicity table Exposure column header information was added.
Section 12: Component Ecotoxicity table End point column header information was added.
Section 12: Component Ecotoxicity table Result column header information was added.
Section 12: Persistence and degradability table Material column header information was added.
Section 12: Persistence and degradability table CAS No column header information was added.
Section 12: Persistence and degradability table Test Type column header information was added.
Section 12: Persistence and degradability table Duration column header information was added.
Section 12: Persistence and degradability table Test Result column header information was added.
Section 12: Persistence and degradability table Protocol column header information was added.
Section 12: Biocumulative potential table Material column header information was added.
Section 12: Biocumulative potential table CAS No column header information was added.
Section 12: Biocumulative potential table CAS No column header information was added.
Section 12: Biocumulative potential table Test Result column header information was added.
Section 12: Biocumulative potential table Protocol column header information was added.
Section 12: Biocumulative potential table Test Type column header information was added.
Section 5: Hazardous combustion products heading information was added.
Section 5: Hazardous combustion products table information was added.
Section 8: Personal Protection - Eye information information was added.
Section 8: Personal Protection - Respiratory Information information was added.
Section 12: Persistence and degradability table Study Type column header information was added.
Section 12: Biocumulative potential table Test Type column header information was added.
Section 9: Odour Threshold information was added.
Section 9: Solubility (non-water) information was added.
Section 09: Decomposition Temperature information was added.
Section 09: Melting point/Freezing point information was added.
Section 09: Boiling point/Initial boiling point/Boiling range information was added.
Section 10: Hazardous decomposition products during combustion text information was added.
Section 11: Disclosed components not in tables text information was added.
Section 9: Flammability (solid, gas) information information was added.
GHS Section 1.2 Recommended use and restrictions on use heading information was added.
GHS Section 1.2 Recommended use heading information was added.
GHS Section 1.3 Supplier's details heading information was added.
Section 14: Transportation information information was added.
Section 15: NZ Inventories information information was added.
Section 2: NZ Symbols information was added.
GHS MSDS Issue Date heading information was added.
GHSSDS Section 13.1. Disposal methods heading information was added.

GHSSDS Section 14 Header information was added.
GHS Section 5.1: Suitable extinguishing media heading information was added.
GHS Section 5.3: Special protective actions for fire-fighters heading information was added.
US Section 01 Product Use - Recommended Use information was added.
Section 1: 1.2. Relevant identified uses of the substance or mixture and uses advised against heading information was deleted.
Section 1: 1.3. Details of the supplier of the substance or mixture heading information was deleted.
Section 5: 5.1. Extinguishing media heading information was deleted.
Section 5: 5.3. Advice for fire-fighters information was deleted.
Revision date text information was deleted.
Section 14: Main heading information was deleted.
Section 1: Product use information information was deleted.
Section 9: Boiling point information information was deleted.
Section 9: Solubility in water text information was deleted.
Section 8: Respiratory protection information information was deleted.
Section 8: Eye protection information information was deleted.
Section 9: Explosive properties heading information was deleted.
Section 9: Oxidising properties heading information was deleted.
Section 9: Explosive properties information information was deleted.
Section 9: Oxidising properties information information was deleted.
Section 9: Melting point information information was deleted.
Prints No Data if Component ecotoxicity information is not present information was deleted.
Prints No Data if Persistence and Degradability information is not present information was deleted.
Prints No Data if Bioaccumulative potential information is not present information was deleted.
Section 11: Aspiration Hazard Table information was deleted.
Section 11: Respiratory Sensitization Table information was deleted.
Section 1: Identified uses header information was deleted.
Section 13: 13.1. Waste treatment method heading information was deleted.
Transportation information information was deleted.
Section 2: NZ Precautionary Statements - Storage information was deleted.
NZLLDG Precautionary - Storage - Header information was deleted.

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