



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 as amended.

SECTION 1: Identification

1.1. Product identifier

3M™ Avagard™ D Instant Hand Antiseptic with Moisturizers

Product identification numbers

70-2007-2261-2 70-2007-2262-0 70-2007-6239-4 70-2007-6373-1

1.2. Recommended use and restrictions on use

Recommended use

Hand sanitizer.

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.

Classified as a Dangerous Good according to; NZS 5433:2012 Transport of Dangerous Goods on Land, UN, IMDG and IATA.

HSNO classification

3.1B Flammable liquid
9.1D Aquatic toxicity

2.2. Label elements

SIGNAL WORD

DANGER!

3M™ Avagard™ D Instant Hand Antiseptic with Moisturizers

Symbols:

Flame |

Pictograms



HAZARD STATEMENTS:

H225 Highly flammable liquid and vapour.

H402 Harmful to aquatic life.

PRECAUTIONARY STATEMENTS

General:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

Prevention:

P104 Read Safety Data Sheet before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P240 Ground/bond container and receiving equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P233 Keep container tightly closed.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P280B Wear protective gloves and eye/face protection.

P273 Avoid release to the environment.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P370 + P378G In case of fire: Use a fire fighting agent suitable for flammable liquids and solids such as dry chemical or carbon dioxide.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3. Other hazards

May cause drowsiness or dizziness.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
Ethyl alcohol w/w	64-17-5	50 - 70
Water	7732-18-5	25 - 35
Ethylene glycol polymer	25322-68-3	< 3
Squalane	111-01-3	< 2

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Docosyl alcohol	661-19-8	< 2
Alcohols.	26636-40-8	< 2
Fatty acids	103213-20-3	< 2

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

No need for first aid is anticipated.

If swallowed

Rinse mouth. If you feel unwell, get 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 and solids

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

Substance

Carbon monoxide.
Carbon dioxide.

Condition

During combustion.
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.

5.4. Hazchem code: 2Y

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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

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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 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 toxic, corrosivity or flammability hazard. 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 detergent and water. 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

Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/equipment. 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. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

7.2. Conditions for safe storage including any incompatibilities

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

7.3. Approved handler test certificate

Class 3, when present in quantities greater than 250 L (when in containers greater than 5 L) or 500 L (when in containers up to and including 5 L)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Ethyl alcohol w/w	64-17-5	New Zealand WES	TWA(8 hours):1880 mg/m ³ (1000 ppm)	

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. Use explosion-proof ventilation equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Wear protective gloves and eye/face protection.

Skin/hand protection

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials. Skin protection is not required.

Respiratory protection

None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Appearance/Odour	White viscous liquid with slight alcohol odour.
Odour threshold	<i>No data available.</i>
pH	6
Melting point/Freezing point	<i>Not applicable.</i>
Boiling point/Initial boiling point/Boiling range	77.8 °C
Flash point	21 °C
Evaporation rate	1.4 [<i>Ref Std:BUOAC=1</i>]
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	3.28 % volume
Flammable Limits(UEL)	19 % volume
Vapour density	1.6 [<i>Ref Std:AIR=1</i>]
Relative density	0.83 [<i>Ref Std:WATER=1</i>]
Water solubility	Moderate
Solubility- non-water	<i>No data available.</i>
Partition coefficient: n-octanol/water	<i>No data available.</i>
Autoignition temperature	798.9 °C
Decomposition temperature	<i>No data available.</i>
Viscosity	50,000 - 250 Pa-s
Volatile organic compounds (VOC)	496 g/l
Percent volatile	90 % weight
VOC less H2O & exempt solvents	630 g/l

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

<u>Substance</u>	<u>Condition</u>
None known.	

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. May cause target organ effects after inhalation.

Skin contact

Contact with the skin during product use is not expected to result in significant irritation.

Eye contact

Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause target organ effects after ingestion.

Target Organ Effects:

Single exposure may cause:

Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Additional information:

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the

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International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

Toxicological Data**Acute Toxicity**

Name	Route	Species	Value
Overall product	Ingestion		Data not available or insufficient for classification; calculated ATE >5,000 mg/kg
Ethyl alcohol w/w			Data not available or insufficient for classification
Alcohols.			Data not available or insufficient for classification
Ethylene glycol polymer			Data not available or insufficient for classification
Docosyl alcohol			Data not available or insufficient for classification
Fatty acids			Data not available or insufficient for classification
Squalane			Data not available or insufficient for classification

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Overall product	Rat	No significant irritation
Ethyl alcohol w/w		Data not available or insufficient for classification
Alcohols.		Data not available or insufficient for classification
Ethylene glycol polymer		Data not available or insufficient for classification
Docosyl alcohol		Data not available or insufficient for classification
Fatty acids		Data not available or insufficient for classification
Squalane		Data not available or insufficient for classification

Serious Eye Damage/Irritation

Name	Species	Value
Overall product	Rabbit	No significant irritation
Ethyl alcohol w/w		Data not available or insufficient for classification
Alcohols.		Data not available or insufficient for classification
Ethylene glycol polymer		Data not available or insufficient for classification
Docosyl alcohol		Data not available or insufficient for classification
Fatty acids		Data not available or insufficient for classification
Squalane		Data not available or insufficient for classification

Skin Sensitisation

Name	Species	Value
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Ethyl alcohol w/w		Data not available or insufficient for classification
Alcohols.		Data not available or insufficient for classification
Ethylene glycol polymer		Data not available or insufficient for classification
Docosyl alcohol		Data not available or insufficient for classification
Fatty acids		Data not available or insufficient for classification
Squalane		Data not available or insufficient for classification

Respiratory Sensitisation

Name	Species	Value
Ethyl alcohol w/w		Data not available or insufficient for classification
Alcohols.		Data not available or insufficient for classification
Ethylene glycol polymer		Data not available or insufficient for classification
Docosyl alcohol		Data not available or insufficient for classification
Fatty acids		Data not available or insufficient for classification
Squalane		Data not available or insufficient for classification

Germ Cell Mutagenicity

Name	Route	Value
Ethyl alcohol w/w		Data not available or insufficient for classification
Alcohols.		Data not available or insufficient for classification
Ethylene glycol polymer		Data not available or insufficient for classification
Docosyl alcohol		Data not available or insufficient for classification
Fatty acids		Data not available or insufficient for classification
Squalane		Data not available or insufficient for classification

Carcinogenicity

Name	Route	Species	Value
Ethyl alcohol w/w			Data not available or insufficient for classification
Alcohols.			Data not available or insufficient for classification
Ethylene glycol polymer			Data not available or insufficient for classification
Docosyl alcohol			Data not available or insufficient for classification
Fatty acids			Data not available or insufficient for classification
Squalane			Data not available or insufficient for classification

Reproductive Toxicity

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Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Overall product	Dermal	Not toxic to female reproduction	Rat	NOAEL 0.3 mL	during gestation
Overall product	Dermal	Not toxic to male reproduction	Rat	NOAEL 0.15 mL	93 days
Overall product	Dermal	Not toxic to development	Rat	NOAEL 0.3 mL	during gestation
Ethyl alcohol w/w		Data not available or insufficient for classification			
Alcohols.		Data not available or insufficient for classification			
Ethylene glycol polymer		Data not available or insufficient for classification			
Docosyl alcohol		Data not available or insufficient for classification			
Fatty acids		Data not available or insufficient for classification			
Squalane		Data not available or insufficient for classification			

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Ethyl alcohol w/w	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	LOAEL 2.6 mg/l	30 minutes
Ethyl alcohol w/w	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	LOAEL 9.4 mg/l	not available
Ethyl alcohol w/w	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL not available	
Alcohols.			Data not available or insufficient for classification			
Ethylene glycol polymer			Data not available or insufficient for classification			
Docosyl alcohol			Data not available or insufficient for classification			
Fatty acids			Data not available or insufficient for classification			
Squalane			Data not available or insufficient for classification			

Specific Target Organ Toxicity - repeated exposure

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Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Overall product	Dermal	heart endocrine system bone, teeth, nails, and/or hair bone marrow hematopoietic system liver immune system muscles nervous system eyes kidney and/or bladder respiratory system vascular system	All data are negative	Rat	NOAEL 0.15 mL	93 days
Ethyl alcohol w/w	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 124 mg/l	365 days
Ethyl alcohol w/w	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 8,000 mg/kg/day	4 months
Alcohols.			Data not available or insufficient for classification			
Ethylene glycol polymer			Data not available or insufficient for classification			
Docosyl alcohol			Data not available or insufficient for classification			
Fatty acids			Data not available or insufficient for classification			
Squalane			Data not available or insufficient for classification			

Aspiration Hazard

Name	Value
Ethyl alcohol w/w	Not an aspiration hazard
Alcohols.	Not an aspiration hazard
Ethylene glycol polymer	Not an aspiration hazard
Docosyl alcohol	Not an aspiration hazard
Fatty acids	Not an aspiration hazard
Squalane	Not an aspiration hazard

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

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available

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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.

9.1D Aquatic toxicity

No product test data available.

No component test data available.

12.2. Persistence and degradability

No test data available.

12.3 : Bioaccumulative potential

No test data available.

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

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

Incinerate in a permitted waste incineration 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

70-2007-2261-2, 70-2007-2262-0.

NEW ZEALAND LAND TRANSPORT:

UN1170, ETHANOL SOLUTION, 3, II, LIMITED QUANTITY.

IATA:

UN1170, ETHANOL SOLUTION, 3, II.

IMO/IMDG:

UN1170, ETHANOL SOLUTION, 3, II, LIMITED QUANTITY.

SECTION 15: Regulatory information

HSNO Approval number	HSR002552
Group standard name	Cosmetic Products Group Standard 2006
HSNO Hazard classification	Refer to section 2

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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	Class 3, when present in quantities greater than 250 L (when in containers greater than 5 L) or 500 L (when in containers up to and including 5 L)
Location and transit Depot certification test	100 L (closed containers greater than 5 L) 250 L (closed containers up to and including 5 L) 50 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 250 L
Emergency response plan	100 L (for a HSNO 9.1A substance); or 1,000 L (for all other HSNO 3.1B substances)
Secondary containment	100 L (for a HSNO 9.1A substance); or 1,000 L (for all other HSNO 3.1B substances)
Tracking	Not required
Warning signage	100 L (for a HSNO 9.1A substance); or 250 L (for all other HSNO 3.1B substances)

SECTION 16: Other information

Revision information:

No revision information is available.

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