



## 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™ Glass Cleaner Concentrate (Product No. 1, 3M™ Chemical Management Systems)

#### Product Identification Numbers

70-0715-9204-5      70-0716-8343-0

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Non-streaking cleaner for windows, glass and mirrors. Fragrance Added, This product meets Green Seal™ Standard GS-37 based on effective performance, concentrated volume, minimized/recycled packaging, and protective limits on: VOCs and human & environmental toxicity. GreenSeal.org., Hard Surface Cleaner

#### 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.

Not 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.

#### HSNO classification

3.1C Flammable liquid  
6.3B Irritating to the skin  
6.4A Irritating to the eye  
9.1D Aquatic toxicity

## 2.2. Label elements

### SIGNAL WORD

WARNING!

### Symbols:

Flame | Exclamation mark |

### Pictograms



### HAZARD STATEMENTS:

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H316	Causes mild skin irritation.
H402	Harmful to aquatic life.

### PRECAUTIONARY STATEMENTS

#### Prevention:

P104	Read Safety Data Sheet before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.

#### Response:

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation 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.

#### Storage:

P403 + P235	Store in a well-ventilated place. Keep cool.
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#### 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 - 90
Non-ionic Surfactants	68515-73-1	5 - 10
Propan-2-ol	67-63-0	3 - 7
D-glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	1 - 3
Sodium dodecyl sulphate	151-21-3	0.5 - 1.5
Potassium carbonate	584-08-7	0.5 - 1.5

## SECTION 4: First aid measures

#### **4.1. Description of first aid measures**

##### **Inhalation**

Remove person to fresh air. If you feel unwell, get medical attention.

##### **Skin contact**

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

##### **Eye contact**

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

A product risk assessment is recommended to determine if eye wash facilities may be required when using this product in the workplace.

##### **If swallowed**

Rinse mouth. If you feel unwell, get medical attention.

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

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>
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.

#### **5.3. Special protective actions for fire-fighters**

No special protective actions for fire-fighters are anticipated.

### **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 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 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

This product is not intended to be used without prior dilution as specified on the product label. Avoid eye contact. For industrial or professional use only. Do not use in a confined area with minimal air exchange. Grounding or safety shoes with electrostatic dissipating soles (ESD) are not required with a chemical dispensing system. Keep out of reach of children. 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 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. 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 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

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.

<b>Ingredient</b>	<b>CAS Nbr</b>	<b>Agency</b>	<b>Limit type</b>	<b>Additional comments</b>
Propan-2-ol	67-63-0	ACGIH	TWA:200 ppm;STEL:400 ppm	A4: Not class. as human carcinogen
Propan-2-ol	67-63-0	New Zealand WES	TWA(8 hours):983 mg/m <sup>3</sup> (400 ppm);STEL(15 minutes):1230 mg/m <sup>3</sup> (500 ppm)	

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/m<sup>3</sup>: milligrams per cubic metre

CEIL: Ceiling

### 8.2. Exposure controls

### **8.2.1. Engineering controls**

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

### **8.2.2. Personal protective equipment (PPE)**

#### **Eye/face protection**

NOTE: When used with a chemical dispensing system as directed, eye contact with the concentrate is not expected to occur. If the product is not used with a chemical dispensing system or if there is an accidental release, wear protective eye/face protection.

If product is not used with a chemical dispensing system or if there is an accidental release:

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:

Indirect vented goggles.

Refer AS/NZS 1336 - Recommended practices for occupational eye protection and for performance specifications AS/NZS 1337, Parts 1 - 6 - Personal eye-protection.

#### **Skin/hand protection**

NOTE: When used with a chemical dispensing system as directed, skin contact with the concentrate is not expected to occur.

If product is not used with a chemical dispensing system or if there is an accidental release:

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

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

Polymer laminate

#### **Respiratory protection**

NOTE: When used with a chemical dispensing system as directed, respiratory protection is not required.

If product is not used with a chemical dispensing system or if there is an accidental release:

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

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

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

## **SECTION 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid.
<b>Specific Physical Form:</b>	Liquid.
<b>Appearance/Odour</b>	Blue to violet in colour, with apple fragrance.
<b>Odour threshold</b>	<i>No data available.</i>

## 3M™ Glass Cleaner Concentrate (Product No. 1, 3M™ Chemical Management Systems)

<b>pH</b>	11.4
<b>Boiling point/Initial boiling point/Boiling range</b>	148.9 °C
<b>Flash point</b>	48.9 °C [ <i>Test Method</i> :Closed Cup] [ <i>Details</i> :Does not sustain combustion.]
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Flammable Limits(LEL)</b>	<i>No data available.</i>
<b>Flammable Limits(UEL)</b>	<i>No data available.</i>
<b>Vapour pressure</b>	<i>No data available.</i>
<b>Density</b>	<i>No data available.</i>
<b>Relative density</b>	1.019 g/ml [ <i>Ref Std</i> :WATER=1]
<b>Water solubility</b>	Complete
<b>Solubility- non-water</b>	<i>No data available.</i>
<b>Decomposition temperature</b>	<i>No data available.</i>
<b>Viscosity</b>	< 0.05 Pa-s
<b>Volatile organic compounds (VOC)</b>	3 - 7 % [ <i>Test Method</i> :calculated per CARB title 2]
<b>Percent volatile</b>	70 - 100 %
<b>VOC less H2O &amp; exempt solvents</b>	100 - 300 g/l [ <i>Test Method</i> :calculated per CARB title 2]

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

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

None known.

### 10.5 Incompatible materials

Strong oxidising agents.

### 10.6 Hazardous decomposition products

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

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

**3M™ Glass Cleaner Concentrate (Product No. 1, 3M™ Chemical Management Systems)**

Based on test data and/or information on the components, this material may produce the following health effects:

**Inhalation**

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

**Skin contact**

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

**Eye contact**

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

**Ingestion**

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

**Toxicological Data**

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

**Acute Toxicity**

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Non-ionic Surfactants	Dermal	Rabbit	LD50 > 11,200 mg/kg
Non-ionic Surfactants	Ingestion	Rat	LD50 3,730 mg/kg
Propan-2-ol	Dermal	Rabbit	LD50 12,870 mg/kg
Propan-2-ol	Inhalation-Vapor (4 hours)	Rat	LC50 72.6 mg/l
Propan-2-ol	Ingestion	Rat	LD50 4,710 mg/kg
D-glucopyranose, oligomeric, C10-16-alkyl glycosides	Dermal	Rabbit	LD50 > 2,000 mg/kg
D-glucopyranose, oligomeric, C10-16-alkyl glycosides	Ingestion	Rat	LD50 > 2,000 mg/kg
Sodium dodecyl sulphate	Inhalation-Dust/Mist		LC50 > 0.975 mg/l
Sodium dodecyl sulphate	Dermal	Rabbit	LD50 580 mg/kg
Sodium dodecyl sulphate	Ingestion	Rat	LD50 1,650 mg/kg
Potassium carbonate	Dermal	Rabbit	LD50 > 2,000 mg/kg
Potassium carbonate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.58 mg/l
Potassium carbonate	Ingestion	Rat	LD50 1,870 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
Propan-2-ol	Multiple animal species	No significant irritation
Sodium dodecyl sulphate	Rabbit	Irritant
Potassium carbonate	Rabbit	Minimal irritation

**Serious Eye Damage/Irritation**

Name	Species	Value
Propan-2-ol	Rabbit	Severe irritant
Sodium dodecyl sulphate	Rabbit	Corrosive
Potassium carbonate	Rabbit	Corrosive

**Skin Sensitisation**

**3M™ Glass Cleaner Concentrate (Product No. 1, 3M™ Chemical Management Systems)**

Name	Species	Value
Propan-2-ol	Guinea pig	Not sensitizing

**Respiratory Sensitisation**

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

**Germ Cell Mutagenicity**

Name	Route	Value
Propan-2-ol	In Vitro	Not mutagenic
Propan-2-ol	In vivo	Not mutagenic

**Carcinogenicity**

Name	Route	Species	Value
Propan-2-ol	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration
Propan-2-ol	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 400 mg/kg/day	during organogenesis
Propan-2-ol	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	LOAEL 9 mg/l	during gestation

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Propan-2-ol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Propan-2-ol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
Propan-2-ol	Inhalation	auditory system	Some positive data exist, but the data are not sufficient for classification	Guinea pig	NOAEL 13.4 mg/l	24 hours
Propan-2-ol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
Sodium dodecyl sulphate	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
Potassium carbonate	Inhalation	respiratory irritation	May cause respiratory irritation		NOAEL not available	

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Propan-2-ol	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 12.3 mg/l	24 months
Propan-2-ol	Inhalation	nervous system	All data are negative	Rat	NOAEL 12 mg/l	13 weeks
Propan-2-ol	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 400 mg/kg/day	12 weeks



**3M™ Glass Cleaner Concentrate (Product No. 1, 3M™ Chemical Management Systems)****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.**

## 9.1D Aquatic toxicity

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
D-glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9		Data not available or insufficient for classification			
Potassium carbonate	584-08-7	Fathead minnow	Experimental	96 hours	LC50	510 mg/l
Potassium carbonate	584-08-7	Water flea	Experimental	48 hours	EC50	630 mg/l
Non-ionic Surfactants		Crustacea	Experimental	48 hours	EC50	20 mg/l
Non-ionic Surfactants		Zebra Fish	Experimental	96 hours	LC50	101 mg/l
Non-ionic Surfactants		Green algae	Experimental	72 hours	EC50	21 mg/l
Non-ionic Surfactants		Fish	Estimated	28 days	NOEC	1.8 mg/l
Non-ionic Surfactants		Green algae	Estimated	72 hours	NOEC	5.7 mg/l
Non-ionic Surfactants		Crustacea	Estimated	21 days	NOEC	1 mg/l
Sodium dodecyl sulphate	151-21-3	Water flea	Experimental	48 hours	LC50	1.4 mg/l
Sodium dodecyl sulphate	151-21-3	Fish	Experimental	96 hours	LC50	0.59 mg/l
Sodium dodecyl sulphate	151-21-3	Green algae	Experimental	96 hours	EC50	117 mg/l
Sodium dodecyl sulphate	151-21-3	Water flea	Experimental	40 days	NOEC	2 mg/l
Propan-2-ol	67-63-0	Algae	Experimental	24 hours	EC50	>1,000 mg/l

**3M™ Glass Cleaner Concentrate (Product No. 1, 3M™ Chemical Management Systems)**

Propan-2-ol	67-63-0	Fathead minnow	Experimental	96 hours	LC50	6,120 mg/l
Propan-2-ol	67-63-0	Crustacea	Experimental	48 hours	EC50	1,400 mg/l
Propan-2-ol	67-63-0	Water flea	Experimental	21 days	NOEC	30 mg/l

**12.2. Persistence and degradability**

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
D-glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Potassium carbonate	584-08-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Non-ionic Surfactants		Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	94 % weight	OECD 301E - Modified OECD Scre
Water	7732-18-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Sodium dodecyl sulphate	151-21-3	Experimental Biodegradation	14 days	BOD	70 % weight	OECD 301C - MITI test (I)
Propan-2-ol	67-63-0	Experimental Biodegradation	14 days	BOD	86 % weight	OECD 301C - MITI test (I)

**12.3 : Bioaccumulative potential**

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Potassium carbonate	584-08-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
D-glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Non-ionic Surfactants		Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Water	7732-18-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Sodium dodecyl sulphate	151-21-3	Experimental Bioconcentration		Log Kow	1.6	Other methods
Propan-2-ol	67-63-0	Experimental Bioconcentration		Log Kow	0.05	Other methods

## 3M™ Glass Cleaner Concentrate (Product No. 1, 3M™ Chemical Management Systems)

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### 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. 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

NOT HAZARDOUS FOR TRANSPORT

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	HSR002528
Group standard name	Cleaning Products (Flammable) Group Standard 2006
HSNO Hazard classification	Refer to Section 2: Hazard identification

### NZ Inventory of Chemicals (NZIoC) Status

All ingredients are listed on the New Zealand Inventory of Chemicals.

### 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 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 substances)
Tracking	Not required
Warning signage	100 L (for a HSNO 9.1A substance) or 1,000 L (for all other substances)

## SECTION 16: Other information

**Revision information:**

Revision Changes:

Section 1: Product name information was modified.  
Page Heading: Product name information was modified.  
Section 9: pH 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 9: Flammability (solid, gas) information information was modified.  
Section 9: Flammable limits (LEL) information information was modified.  
Section 9: Flammable limits (UEL) 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 11: Health Effects - Inhalation information information was modified.  
Section 11: Health Effects - Ingestion information information was modified.  
Section 5: Fire - Extinguishing media information information was modified.  
Section 5: Fire - Special hazards information information was modified.  
Section 5: Fire - Advice for fire fighters information information was modified.  
Section 6: Accidental release personal 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: Appropriate Engineering controls information information was modified.  
Section 8: Personal Protection - Eye information information was modified.  
Section 8: Personal Protection - Skin/hand information information was modified.  
Section 8: Personal Protection - Respiratory 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.  
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: NZ Inventories information information was modified.  
Section 2: Classification statements information was modified.  
HSNO Classification. information was modified.  
Section 2: NZ Pictograms information was modified.  
Section 2: NZ Health 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 8: Skin protection - recommended gloves information information was added.  
Section 8: Respiratory protection - recommended respirators information information was added.  
Section 8: Respiratory protection - recommended respirators guide 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 8: Skin protection - recommended gloves text 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 8: Occupational exposure limit table information was added.  
Section 5: Hazardous combustion products heading information was added.  
Section 5: Hazardous combustion products table 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: 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 11: Aspiration Hazard 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 8: Eye protection standard information information was added.  
Section 8: Respiratory protection standard information information was added.  
Section 14: Transportation 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.  
Section 14: Main heading 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 11: Respiratory Sensitization text information was added.  
Section 11: Skin Sensitization table - Name heading information was added.  
Section 11: Skin Sensitization table - Species heading information was added.  
Section 11: Skin Sensitization table - Value heading information was added.  
Section 11: Serious Eye Damage/Irritation table - Name heading information was added.  
Section 11: Serious Eye Damage/Irritation table - Species heading information was added.  
Section 11: Serious Eye Damage/Irritation table - Value heading information was added.  
Section 11: Skin Corrosion/Irritation table - Name heading information was added.  
Section 11: Skin Corrosion/Irritation table - Species heading information was added.  
Section 11: Skin Corrosion/Irritation table - Value heading information was added.  
Section 11: Germ Cell Mutagenicity table - Name heading information was added.  
Section 11: Germ Cell Mutagenicity table - Route heading information was added.  
Section 11: Germ Cell Mutagenicity table - Value heading information was added.  
Section 11: Specific Target Organ Toxicity - repeated exposure table - Exposure Duration heading information was added.  
Section 11: Specific Target Organ Toxicity - repeated exposure table - Route heading information was added.  
Section 11: Specific Target Organ Toxicity - repeated exposure table - Target Organ(s) heading information was added.  
Section 11: Specific Target Organ Toxicity - repeated exposure table - Value heading information was added.  
Section 11: Specific Target Organ Toxicity - repeated exposure table - Species heading information was added.  
Section 11: Specific Target Organ Toxicity - repeated exposure table - Test Result heading information was added.  
Section 11: Specific Target Organ Toxicity - repeated exposure table - Exposure Duration heading information was added.  
Section 11: Specific Target Organ Toxicity - single exposure table - Name heading information was added.  
Section 11: Specific Target Organ Toxicity - single exposure table - Route heading information was added.  
Section 11: Specific Target Organ Toxicity - single exposure table - Target Organ(s) heading information was added.  
Section 11: Specific Target Organ Toxicity - single exposure table - Value heading information was added.  
Section 11: Specific Target Organ Toxicity - single exposure table - Species heading information was added.  
Section 11: Specific Target Organ Toxicity - single exposure table - Test Result heading information was added.  
Section 11: Specific Target Organ Toxicity - single exposure table - Exposure Duration heading information was added.  
Section 11: Reproductive and/or Developmental Effects table - Name heading information was added.  
Section 11: Reproductive and/or Developmental Effects table - Route heading information was added.  
Section 11: Reproductive and/or Developmental Effects table - Value heading information was added.  
Section 11: Reproductive and/or Developmental Effects table - Species heading information was added.  
Section 11: Reproductive and/or Developmental Effects table - Test Result heading information was added.  
Section 11: Reproductive and/or Developmental Effects text information was added.  
Section 11: Carcinogenicity table - Name heading information was added.  
Section 11: Carcinogenicity table - Route heading information was added.  
Section 11: Carcinogenicity table - Species heading information was added.  
Section 11: Carcinogenicity table - Value heading information was added.  
Section 1: 1.2. Relevant identified uses of the substance or mixture and uses advised against heading information was deleted.  
Section 01: 1.3. Details of the supplier of the safety data sheet 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: 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.  
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: Exposure Duration table heading information was deleted.  
Section 11: Respiratory Sensitization Table information was deleted.

Section 11: Test Result table heading information was deleted.

Section 1: Identified uses header information was deleted.

Section 13: 13.1. Waste treatment method heading information was deleted.

Section 2: NZ Precautionary Statements - General information was deleted.

NZLLDG Precautionary - General - Header information was deleted.

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