



## Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Heavy Duty Multi-Surface Cleaner Concentrate (Product No. 2, 3M™ Chemical Management Systems)

#### Product Identification Numbers

70-0716-8365-3

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

##### Recommended use

Versatile cleaner removes most spots, stains and grease from washable surfaces. Use to clean carpets, marble, aluminum, stainless steel, chrome, etc., Hard Surface Cleaner

For Industrial or Professional use only

#### 1.3. Supplier's details

**Address:** 3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland  
**Telephone:** (09) 477 4040  
**E Mail:** innovation@nz.mmm.com  
**Website:** 3m.co.nz

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard identification

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

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

#### 2.1. Classification of the substance or mixture

Flammable Liquids: Category 4  
Skin irritation: Category 2  
Serious eye damage: Category 1  
Reproductive Toxicity: Category 2

#### 2.2. Label elements

**SIGNAL WORD**

Danger

**Symbols:**

Corrosion |Health Hazard |

**Pictograms**



**HAZARD STATEMENTS:**

- H227 Combustible Liquid
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H361 Suspected of damaging fertility or the unborn child.

**PRECAUTIONARY STATEMENTS**

**Prevention**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P264 Wash thoroughly after handling.
- P280E Wear protective gloves.

**Response**

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P332 + P313 If skin irritation occurs: Get medical advice/attention.
- P362 + P364 Take off contaminated clothing and wash it before reuse.
- P370 + P378 In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

**Storage**

- P403 Store in a well-ventilated place.
- P405 Store locked up.

**Disposal**

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

**2.3. Other hazards**

This material has been tested for skin corrosion/irritation and the test results are reflected in the assigned classification.

**SECTION 3: Composition/information on ingredients**

Ingredient	CAS Nbr	% by Weight
Water	7732-18-5	80 - 90

D-Glucopyranose, Oligomeric, Decyl Octyl Glycosides	68515-73-1	1 - 10
Non-Ionic Surfactant (3)	Trade Secret	1 - 5
Aminomethyl Propanol	124-68-5	1 - 5
Non-Ionic Surfactant (1)	Trade Secret	1 - 2
Sodium Lauroyl Sarcosinate	137-16-6	< 1
Surfactant (2)	Trade Secret	< 0.5

## **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 for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

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

#### **If swallowed**

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

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

The most important symptoms and effects based on the CLP classification include:

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

Not applicable

## **SECTION 5: Fire-fighting measures**

### **5.1. Suitable extinguishing media**

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**

#### **Substance**

Carbon monoxide.  
Carbon dioxide.  
Oxides of nitrogen.  
Oxides of sulphur.

#### **Condition**

During combustion.  
During combustion.  
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. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

5.4. Hazchem code: Not applicable.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

### 6.3. Methods and material for containment and cleaning up

Contain spill. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with water. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

Refer to Section 15 - Controls for more information

### 7.1. Precautions for safe handling

This product is not intended to be used without prior dilution as specified on the product label. Grounding or safety shoes with electrostatic dissipating soles (ESD) are not required with a chemical dispensing system. Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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.) Use personal protective equipment (eg. gloves, respirators...) as required.

### 7.2. Conditions for safe storage including any incompatibilities

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

### 7.3. Certified handler

Required when present in any quantity, for Acute toxicity Category 2 substances Not required

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

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

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

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. The following protection(s) are recommended if the product is not used with a chemical dispensing system or if there is an accidental release, wear protective 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:

Full face shield.

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.

Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

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

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>Colour</b>	Purple
<b>Odour</b>	Citrus
<b>Odour threshold</b>	<i>No data available.</i>
<b>pH</b>	10.5 - 11.6
<b>Melting point/Freezing point</b>	<i>Not applicable.</i>
<b>Boiling point/Initial boiling point/Boiling range</b>	> 100 °C [Test Method: Estimated]
<b>Flash point</b>	85 °C [Test Method: Tagliabue closed cup]
<b>Evaporation rate</b>	<i>Not applicable.</i>

<b>Flammability (solid, gas)</b>	Not applicable.
<b>Flammable Limits(LEL)</b>	<i>Not applicable.</i>
<b>Flammable Limits(UEL)</b>	<i>Not applicable.</i>
<b>Vapour pressure</b>	<i>No data available.</i>
<b>Vapor Density and/or Relative Vapor Density</b>	<i>No data available.</i>
<b>Relative density</b>	1.005 - 1.016 [Ref Std: WATER=1]
<b>Water solubility</b>	Complete
<b>Solubility- non-water</b>	<i>No data available.</i>
<b>Partition coefficient: n-octanol/water</b>	<i>Not applicable.</i>
<b>Autoignition temperature</b>	<i>No data available.</i>
<b>Decomposition temperature</b>	<i>No data available.</i>
<b>Viscosity/Kinematic Viscosity</b>	15.7 Saybolt Universal Second - 16.7 Saybolt Universal Second [Details: S-90 Zahn #2]
<b>Volatile organic compounds (VOC)</b>	3 - 7 % weight [Test Method: calculated per CARB title 2]
<b>Percent volatile</b>	<i>Not applicable.</i>
<b>VOC less H2O &amp; exempt solvents</b>	340 - 400 g/l [Test Method: calculated per CARB title 2]

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

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

### 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

Not determined

### 10.5 Incompatible materials

Strong oxidising agents.

Strong acids.

### 10.6 Hazardous decomposition products

#### Substance

None known.

#### Condition

Refer to Section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1 Information on Toxicological effects

#### Signs and Symptoms of Exposure

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

**Inhalation**

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

**Skin contact**

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

**Eye contact**

Corrosive (eye burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

**Ingestion**

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

**Additional Health Effects:**

**Reproductive/Developmental Toxicity:**

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

**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
D-Glucopyranose, Oligomeric, Decyl Octyl Glycosides	Dermal	Rabbit	LD50 > 2,000 mg/kg
D-Glucopyranose, Oligomeric, Decyl Octyl Glycosides	Ingestion	Rat	LD50 > 2,000 mg/kg
Aminomethyl Propanol	Dermal	Rabbit	LD50 > 2,000 mg/kg
Aminomethyl Propanol	Ingestion	Rat	LD50 2,900 mg/kg
Non-Ionic Surfactant (1)	Dermal	Rabbit	LD50 1,500 mg/kg
Non-Ionic Surfactant (1)	Ingestion	Rat	LD50 5,100 mg/kg
Sodium Lauroyl Sarcosinate	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
Sodium Lauroyl Sarcosinate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.05, < 0.5 mg/l
Sodium Lauroyl Sarcosinate	Ingestion	Rat	LD50 > 5,000 mg/kg
Surfactant (2)	Dermal	Rabbit	LD50 > 3,160 mg/kg
Surfactant (2)	Ingestion	Rat	LD50 3,000 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
Overall product	In vitro data	Irritant
D-Glucopyranose, Oligomeric, Decyl Octyl Glycosides	Rabbit	Minimal irritation
Aminomethyl Propanol	Rabbit	Irritant
Sodium Lauroyl Sarcosinate	Rabbit	Irritant
Surfactant (2)	Rabbit	Irritant

**Serious Eye Damage/Irritation**

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Name	Species	Value
D-Glucopyranose, Oligomeric, Decyl Octyl Glycosides	Rabbit	Corrosive
Aminomethyl Propanol	Rabbit	Corrosive
Sodium Lauroyl Sarcosinate	Rabbit	Corrosive
Surfactant (2)	Rabbit	Severe irritant

**Sensitisation:**

**Skin Sensitisation**

Name	Species	Value
D-Glucopyranose, Oligomeric, Decyl Octyl Glycosides	Mouse	Not classified
Aminomethyl Propanol	Guinea pig	Not classified
Sodium Lauroyl Sarcosinate	Guinea pig	Not classified
Surfactant (2)	Human and animal	Not classified

**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
D-Glucopyranose, Oligomeric, Decyl Octyl Glycosides	In Vitro	Not mutagenic
Aminomethyl Propanol	In Vitro	Not mutagenic
Aminomethyl Propanol	In vivo	Not mutagenic
Sodium Lauroyl Sarcosinate	In Vitro	Not mutagenic
Surfactant (2)	In vivo	Not mutagenic
Surfactant (2)	In Vitro	Some positive data exist, but the data are not sufficient for classification

**Carcinogenicity**

Name	Route	Species	Value
Surfactant (2)	Dermal	Mouse	Not carcinogenic

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration
Aminomethyl Propanol	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Aminomethyl Propanol	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	37 days
Aminomethyl Propanol	Dermal	Not classified for development	Rat	NOAEL 300 mg/kg/day	during gestation
Aminomethyl Propanol	Ingestion	Toxic to development	Rat	NOAEL 100 mg/kg/day	premating into lactation
Sodium Lauroyl Sarcosinate	Ingestion	Not classified for development	Rabbit	NOAEL 500 mg/kg/day	during gestation
Surfactant (2)	Not specified.	Not classified for development	similar compounds	NOAEL Not available	

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
D-Glucopyranose, Oligomeric, Decyl Octyl Glycosides	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
Aminomethyl Propanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL Not available	
Sodium Lauroyl Sarcosinate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Surfactant (2)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Surfactant (2)	Inhalation	central nervous system depression	Not classified	Rat	NOAEL 0.4 mg/l	6 hours
Surfactant (2)	Ingestion	central nervous system depression	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Aminomethyl Propanol	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 23 mg/kg/day	90 days
Aminomethyl Propanol	Ingestion	blood   eyes   kidney and/or bladder	Not classified	Dog	NOAEL 2.8 mg/kg/day	1 years
Sodium Lauroyl Sarcosinate	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 30 mg/kg/day	90 days
Sodium Lauroyl Sarcosinate	Ingestion	heart   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system	Not classified	Rat	NOAEL 250 mg/kg/day	90 days

**Aspiration Hazard**

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

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

**SECTION 12: Ecological information**

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

**12.1. Toxicity**

**Ecotoxic to the aquatic environment.**

Acute Aquatic Toxicity: Category 3

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
D-Glucopyranose, Oligomeric, Decyl Octyl Glycosides	68515-73-1	Green algae	Experimental	72 hours	ErC50	27.22 mg/l
D-Glucopyranose, Oligomeric, Decyl Octyl Glycosides	68515-73-1	Water flea	Experimental	48 hours	EC50	>100 mg/l
D-Glucopyranose, Oligomeric, Decyl Octyl Glycosides	68515-73-1	Zebra Fish	Experimental	96 hours	LC50	101 mg/l
D-Glucopyranose, Oligomeric, Decyl Octyl Glycosides	68515-73-1	Water flea	Analogous Compound	21 days	NOEC	2 mg/l
D-Glucopyranose, Oligomeric, Decyl Octyl Glycosides	68515-73-1	Zebra Fish	Analogous Compound	28 days	NOEC	1.8 mg/l
D-Glucopyranose, Oligomeric, Decyl Octyl Glycosides	68515-73-1	Green algae	Experimental	72 hours	EbC10	6.25 mg/l
Aminomethyl Propanol	124-68-5	Activated sludge	Experimental	3 hours	EC50	342.9 mg/l
Aminomethyl Propanol	124-68-5	Fish	Experimental	96 hours	LC50	184 mg/l
Aminomethyl Propanol	124-68-5	Green algae	Experimental	72 hours	EC50	520 mg/l
Aminomethyl Propanol	124-68-5	Water flea	Experimental	24 hours	EC50	65 mg/l
Non-Ionic Surfactant (3)	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Non-Ionic Surfactant (1)	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Sodium Lauroyl Sarcosinate	137-16-6	Activated sludge	Experimental	3 hours	EC50	>1,000 mg/l
Sodium Lauroyl	137-16-6	Green algae	Experimental	72 hours	EC50	79 mg/l

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Sarcosinate						
Sodium Lauroyl Sarcosinate	137-16-6	Water flea	Experimental	48 hours	EC50	8.91 mg/l
Sodium Lauroyl Sarcosinate	137-16-6	Zebra Fish	Experimental	96 hours	LC50	32.1 mg/l
Sodium Lauroyl Sarcosinate	137-16-6	Green algae	Experimental	72 hours	NOEC	9.2 mg/l
Surfactant (2)	Trade Secret	Green algae	Analogous Compound	72 hours	EC50	0.66 mg/l
Surfactant (2)	Trade Secret	Water flea	Analogous Compound	48 hours	EC50	0.765 mg/l
Surfactant (2)	Trade Secret	Bleak	Experimental	96 hours	LC50	4.6 mg/l
Surfactant (2)	Trade Secret	Fathead minnow	Experimental	96 hours	LC50	1.04 mg/l
Surfactant (2)	Trade Secret	Invertebrate	Experimental	96 hours	LC50	0.8 mg/l
Surfactant (2)	Trade Secret	Fathead minnow	Analogous Compound	33 days	EC10	0.43 mg/l
Surfactant (2)	Trade Secret	Green algae	Analogous Compound	72 hours	NOEC	0.085 mg/l
Surfactant (2)	Trade Secret	Water flea	Analogous Compound	21 days	NOEC	0.014 mg/l
Surfactant (2)	Trade Secret	Ciliated protozoa	Analogous Compound	48 hours	IC50	1.58 mg/l

**12.2. Persistence and degradability**

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
D-Glucopyranose, Oligomeric, Decyl Octyl Glycosides	68515-73-1	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	100 % removal of DOC	OECD 301E - Modif. OECD Screen
Aminomethyl Propanol	124-68-5	Experimental Biodegradation	28 days	BOD	89.3 %BOD/ThOD	OECD 301F - Manometric respirometry
Non-Ionic Surfactant (3)	Trade Secret	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Non-Ionic Surfactant (1)	Trade Secret	Analogous Compound Biodegradation	28 days	CO2 evolution	85 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
Sodium Lauroyl Sarcosinate	137-16-6	Experimental Biodegradation	14 days	BOD	86 %BOD/ThOD	OECD 301C - MITI test (I)
Surfactant (2)	Trade Secret	Analogous Compound Biodegradation	28 days	BOD	100 %BOD/ThOD	

**12.3 : Bioaccumulative potential**

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
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D-Glucopyranose, Oligomeric, Decyl Octyl Glycosides	68515-73-1	Analogous Compound Bioconcentration		Log Kow	1.72	EC A.8 Partition Coefficient
Aminomethyl Propanol	124-68-5	Experimental Bioconcentration		Log Kow	-0.63	
Non-Ionic Surfactant (3)	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Non-Ionic Surfactant (1)	Trade Secret	Analogous Compound BCF - Fish	72 hours	Bioaccumulation factor	310	
Sodium Lauroyl Sarcosinate	137-16-6	Estimated Bioconcentration		Log Kow	0.37	
Surfactant (2)	Trade Secret	Modeled Bioconcentration		Bioaccumulation factor	56	Catalogic™
Surfactant (2)	Trade Secret	Experimental Bioconcentration		Log Kow	4.8	

**12.4. Mobility in soil**

Please contact manufacturer for more details

**12.5 Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Disposal methods**

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

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

**SECTION 14: Transport Information**

**New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport**

**UN No.:** Not applicable.

**Proper Shipping Name:** Not applicable.

**Class/Division:** Not applicable.

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

**Hazchem Code:** Not applicable.  
**IERG:** Not applicable.

**International Air Transport Association (IATA) - Air Transport**

**UN No.:** Not applicable.  
**Proper Shipping Name:** Not applicable.  
**Class/Division:** Not applicable.  
**Sub Risk:** Not applicable.  
**Packing Group:** Not applicable.

**International Maritime Dangerous Goods Code (IMDG) - Marine Transport**

**UN No.:** Not applicable.  
**Proper Shipping Name:** Not applicable.  
**Class/Division:** Not applicable.  
**Sub Risk:** Not applicable.  
**Packing Group:** Not applicable.  
**Marine Pollutant:** Not applicable.

**SECTION 15: Regulatory information**

HSNO Approval number      HSR002525  
Group standard name      Cleaning Products (Combustible) Group Standard 2020  
HSNO Hazard classification    Refer to Section 2: Hazard identification

**NZ Inventory of Chemicals (NZIoC) Status**

All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

**Controls in accordance with The Health and Safety at Work Act 2015, Health and Safety at Work (Hazardous Substances) Regulations 2017 and the HSNO Act 1996, Hazardous Substances (Hazardous Property Controls) Notice 2017**

Certified handler	Required when present in any quantity, for Acute toxicity Category 2 substances    Not required
Location Compliance Certificate	Not required
Hazardous atmosphere zone	Not required
Fire extinguishers	Two required for 500 L
Emergency response plan	100 L    100 L (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L (for all other substances)
Secondary containment	100 L    100 L (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L (for all other substances)
Tracking	Not required    Required (for Acute toxicity Category 2 substances).
Warning signage	100 L (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L (for Serious eye damage Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L (for all other substances)    100 L (for Hazardous to the aquatic environment Category 1 substances); or 250 L (for all other substances)

**SECTION 16: Other information**

**Revision information:**

Complete document review.

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

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