

2.2. Label elements

SIGNAL WORD

Warning

Symbols:

Environment |

Pictograms



HAZARD STATEMENTS:

H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention

P273 Avoid release to the environment.

Response

P391 Collect spillage.

Disposal

P501 Dispose of contents/container via an approved hazardous waste disposal contractor.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
Water	7732-18-5	50 - 70
Cellulose	9004-34-6	30 - 50
Alcohols, C9-11, ethoxylated	68439-46-3	0.1 - 1
Benzyl-C12-16-alkyldimethylammonium chloride	68424-85-1	0.1 - 1

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

If exposed, wash with soap and water. If signs/symptoms develop, get medical attention.

Eye contact

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

If swallowed

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

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

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

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

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

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: 2Z

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. 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

For industrial/occupational use only. Not for consumer sale or use. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Avoid release to the environment.

7.2. Conditions for safe storage including any incompatibilities

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No special storage requirements.

7.3. Certified handler

Not required

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

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

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Cellulose	9004-34-6	ACGIH	TWA:10 mg/m ³	
Cellulose	9004-34-6	New Zealand WES	TWA(as fiber)(8 hours):10 mg/m ³	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

New Zealand WES : New Zealand Workplace Exposure Standards.

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

ppm: parts per million

mg/m³: milligrams per cubic metre

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

No engineering controls required.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

None required.

Skin/hand protection

No chemical protective gloves are required.

Respiratory protection

None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid. moist
Specific Physical Form:	Non-Woven Material
Colour	White
Odour	odour less
Odour threshold	<i>No data available.</i>
pH	5.75 - 6.75 [Details:CONDITIONS: Excluding towelette]
Melting point/Freezing point	<i>Not applicable.</i>
Boiling point/Initial boiling point/Boiling range	± 100 °C [Details:CONDITIONS: Excluding towelette]
Flash point	No flash point
Evaporation rate	0.33 [Ref Std:BUOAC=1] [Details:Excluding Towelette]

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Flammability	Not applicable.
Flammable Limits(LEL)	<i>Not applicable.</i>
Flammable Limits(UEL)	<i>Not applicable.</i>
Vapour pressure	± 2,338.5 Pa [@ 20 °C] [<i>Details:Excluding Towelette</i>]
Relative Vapour Density	<i>No data available.</i>
Density	1 g/ml [<i>Details:Excluding Towelette</i>]
Relative density	± 1 [<i>Ref Std:WATER=1</i>] [<i>Details:CONDITIONS: Excluding towelette</i>]
Water solubility	Complete
Solubility- non-water	<i>No data available.</i>
Partition coefficient: n-octanol/water	<i>No data available.</i>
Autoignition temperature	<i>No data available.</i>
Decomposition temperature	<i>No data available.</i>
Kinematic Viscosity	<i>No data available.</i>
Volatile organic compounds (VOC)	<i>No data available.</i>
Percent volatile	± 100 % [<i>Details:CONDITIONS: Excluding towelette</i>]
VOC less H2O & exempt solvents	<i>No data available.</i>
Molecular weight	<i>No data available.</i>

Particle Characteristics	<i>Not applicable.</i>
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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

None known.

10.6 Hazardous decomposition products**Substance****Condition**

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.

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11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation

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

Skin contact

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

Eye contact

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

Ingestion

Physical Blockage: Signs/symptoms may include cramping, abdominal pain, and constipation. 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	Ingestion		No data available; calculated ATE >5,000 mg/kg
Cellulose	Dermal	Rabbit	LD50 > 2,000 mg/kg
Cellulose	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.8 mg/l
Cellulose	Ingestion	Rat	LD50 > 5,000 mg/kg
Alcohols, C9-11, ethoxylated	Dermal	similar compounds	LD50 > 2,000 mg/kg
Alcohols, C9-11, ethoxylated	Inhalation-Dust/Mist (4 hours)	similar compounds	LC50 > 1.6 mg/l
Alcohols, C9-11, ethoxylated	Ingestion	similar compounds	LD50 3,488 mg/kg
Benzyl-C12-16-alkyldimethylammonium chloride	Dermal	Rabbit	LD50 3,413 mg/kg
Benzyl-C12-16-alkyldimethylammonium chloride	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.25 mg/l
Benzyl-C12-16-alkyldimethylammonium chloride	Ingestion	Rat	LD50 398 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Cellulose	Not available	No significant irritation
Alcohols, C9-11, ethoxylated	similar compounds	Minimal irritation
Benzyl-C12-16-alkyldimethylammonium chloride	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
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Cellulose	Not available	No significant irritation
Alcohols, C9-11, ethoxylated	Professional judgement	Moderate irritant
Benzyl-C12-16-alkyldimethylammonium chloride	Rabbit	Corrosive

Sensitisation:**Skin Sensitisation**

Name	Species	Value
Alcohols, C9-11, ethoxylated	Guinea pig	Not classified
Benzyl-C12-16-alkyldimethylammonium chloride	Guinea pig	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
Alcohols, C9-11, ethoxylated	In Vitro	Not mutagenic
Benzyl-C12-16-alkyldimethylammonium chloride	In Vitro	Not mutagenic
Benzyl-C12-16-alkyldimethylammonium chloride	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Benzyl-C12-16-alkyldimethylammonium chloride	Ingestion	Rat	Not carcinogenic

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

Name	Route	Value	Species	Test result	Exposure Duration
Alcohols, C9-11, ethoxylated	Dermal	Not classified for female reproduction	Rat	NOAEL 250 mg/kg/day	2 generation
Alcohols, C9-11, ethoxylated	Dermal	Not classified for development	Rat	NOAEL 250 mg/kg/day	2 generation
Alcohols, C9-11, ethoxylated	Dermal	Not classified for male reproduction	Rat	NOAEL 100 mg/kg/day	2 generation
Benzyl-C12-16-alkyldimethylammonium chloride	Ingestion	Not classified for female reproduction	Rat	NOAEL 48 mg/kg/day	2 generation
Benzyl-C12-16-alkyldimethylammonium chloride	Ingestion	Not classified for male reproduction	Rat	NOAEL 30.5 mg/kg/day	2 generation
Benzyl-C12-16-alkyldimethylammonium chloride	Ingestion	Not classified for development	Rat	NOAEL 48 mg/kg/day	2 generation

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

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Alcohols, C9-11, ethoxylated	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Benzyl-C12-16-alkyldimethylammonium	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for	similar health	NOAEL Not available.	

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chloride			classification	hazards		
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Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Alcohols, C9-11, ethoxylated	Dermal	kidney and/or bladder heart hematopoietic system liver nervous system respiratory system	Not classified	Rat	NOAEL 125 mg/kg/day	13 weeks
Benzyl-C12-16-alkyldimethylammonium chloride	Ingestion	heart endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system liver immune system nervous system eyes kidney and/or bladder respiratory system vascular system	Not classified	Rat	NOAEL 50 mg/kg/day	95 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 1

Chronic Aquatic Toxicity: Category 3

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Cellulose	9004-34-6	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Benzyl-C12-16-alkyldimethylammonium chloride	68424-85-1	Diatom	Experimental	96 hours	ErC50	0.089 mg/l
Benzyl-C12-16-alkyldimethyla	68424-85-1	Green algae	Experimental	72 hours	ErC50	0.049 mg/l

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mmonium chloride						
Benzyl-C12-16-alkyldimethylammonium chloride	68424-85-1	Mysid Shrimp	Experimental	96 hours	LC50	0.092 mg/l
Benzyl-C12-16-alkyldimethylammonium chloride	68424-85-1	Rainbow trout	Experimental	96 hours	LC50	0.064 mg/l
Benzyl-C12-16-alkyldimethylammonium chloride	68424-85-1	Sheepshead Minnow	Experimental	96 hours	LC50	0.86 mg/l
Benzyl-C12-16-alkyldimethylammonium chloride	68424-85-1	Water flea	Experimental	48 hours	EC50	0.0058 mg/l
Benzyl-C12-16-alkyldimethylammonium chloride	68424-85-1	Diatom	Experimental	96 hours	NOEC	0.035 mg/l
Benzyl-C12-16-alkyldimethylammonium chloride	68424-85-1	Fathead minnow	Experimental	28 days	NOEC	0.0322 mg/l
Benzyl-C12-16-alkyldimethylammonium chloride	68424-85-1	Green algae	Experimental	72 hours	ErC10	0.009 mg/l
Benzyl-C12-16-alkyldimethylammonium chloride	68424-85-1	Water flea	Experimental	21 days	NOEC	0.00415 mg/l
Benzyl-C12-16-alkyldimethylammonium chloride	68424-85-1	Activated sludge	Experimental	3 hours	EC50	7.75 mg/l
Benzyl-C12-16-alkyldimethylammonium chloride	68424-85-1	Mustard	Experimental	16 days	EC50	277 mg/kg (Dry Weight)
Benzyl-C12-16-alkyldimethylammonium chloride	68424-85-1	Redworm	Experimental	14 days	LC50	7,070 mg/kg (Dry Weight)

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mmonium chloride						
Benzyl-C12-16-alkyldimethylammonium chloride	68424-85-1	Redworm	Experimental	56 days	NOEC	125 mg/kg (Dry Weight)
Benzyl-C12-16-alkyldimethylammonium chloride	68424-85-1	Soil microbes	Experimental	28 days	EC50	130 mg/kg (Dry Weight)
Alcohols, C9-11, ethoxylated	68439-46-3	Rainbow trout	Analogous Compound	96 hours	LC50	5 mg/l
Alcohols, C9-11, ethoxylated	68439-46-3	Green algae	Experimental	72 hours	EbC50	1.4 mg/l
Alcohols, C9-11, ethoxylated	68439-46-3	Water flea	Experimental	48 hours	EC50	2.5 mg/l
Alcohols, C9-11, ethoxylated	68439-46-3	Green algae	Analogous Compound	72 hours	ErC10	1.05 mg/l
Alcohols, C9-11, ethoxylated	68439-46-3	Water flea	Analogous Compound	21 days	NOEC	0.107 mg/l
Alcohols, C9-11, ethoxylated	68439-46-3	Activated sludge	Analogous Compound	3 hours	EC50	140 mg/l
Alcohols, C9-11, ethoxylated	68439-46-3	Wheat	Analogous Compound	19 days	EC50	>100 mg/kg (Dry Weight)

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Cellulose	9004-34-6	Data not available - insufficient	N/A	N/A	N/A	N/A
Benzyl-C12-16-alkyldimethylammonium chloride	68424-85-1	Experimental Biodegradation	28 days	CO2 evolution	95.5 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
Benzyl-C12-16-alkyldimethylammonium chloride	68424-85-1	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>1 years (t 1/2)	EC C.7 Hydrolysis at pH
Alcohols, C9-11, ethoxylated	68439-46-3	Analogous Compound Biodegradation	28 days	BOD	72 %CO2 evolution/THC O2 evolution	ISO 14593 Inorg C Headspace

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Cellulose	9004-34-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

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Benzyl-C12-16-alkyldimethylammonium chloride	68424-85-1	Experimental BCF - Fish	35 days	Bioaccumulation factor	79	
Benzyl-C12-16-alkyldimethylammonium chloride	68424-85-1	Estimated Bioconcentration		Log Kow	2.75	
Alcohols, C9-11, ethoxylated	68439-46-3	Modeled Bioconcentration		Bioaccumulation factor	31	Catalogic™
Alcohols, C9-11, ethoxylated	68439-46-3	Analogous Compound Bioconcentration		Log Kow	2.72	OECD 123 log Kow slow stir

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available.

The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

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.

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.: UN3077

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. , (Benzyl-C12-16-Alkyldimethyl Ammonium Chlorides)

Class/Division: 9

Sub Risk: Not applicable.

Packing Group: III

Special Instructions: NZ 335 (UN3082 or UN3077) in sealed pack <10ml absorbed into solid, not subject to NZ Regulations.

Hazchem Code: 2Z

IERG: 47

International Air Transport Association (IATA) - Air Transport

UN No.: UN3077

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. , (Benzyl-C12-16-

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Alkyldimethyl Ammonium Chlorides)

Class/Division: 9

Sub Risk: Not applicable.

Packing Group: III

Special Instructions: Not restricted, as per Special Provision A197, environmentally hazardous substance exception.

International Maritime Dangerous Goods Code (IMDG) - Marine Transport

UN No.: UN3077

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. , (Benzyl-C12-16-Alkyldimethyl Ammonium Chlorides)

Class/Division: 9

Sub Risk: Not applicable.

Packing Group: III

Marine Pollutant:

Special Instructions: Not restricted, as per IMDG code 2.10.2.7, marine pollutant exception.

SECTION 15: Regulatory information

HSNO Approval number HSR002530
Group standard name Cleaning Products (Subsidiary Hazard) 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	Not required
Location Compliance Certificate	Not required
Hazardous atmosphere zone	Not required
Fire extinguishers	Not required
Emergency response plan	100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (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 or 10 000 kg (for Germ cell mutagenicity Category 1, Reproductive toxicity Category 1, Specific target organ toxicity Category 1, Serious eye damage Category 1, Hazardous to the aquatic environment Category 4 substances)
Secondary containment	100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (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 or 10 000 kg (for Germ cell mutagenicity Category 1, Reproductive toxicity Category 1, Specific target organ toxicity Category 1, Serious eye damage Category 1, Hazardous to the aquatic environment Category 4 substances)
Tracking	Not required
Warning signage	100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (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 or 10 000 kg (for Acute toxicity Category 4 or Hazardous to the aquatic environment Category 4 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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