

Safety Data Sheet

CYCLONE SPRAY & WIPE ALL PURPOSE CLEANER - CITRUS

Revision: 2017-07-05

Version: 01.0

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier Product name CYCLONE SPRAY & WIPE ALL PURPOSE CLEANER - CITRUS

1.2 Recommended use and restrictions on use

Identified uses: All purpose cleaner and disinfectant Restrictions of use: Uses other than those identified are not recommended

1.3 Details of the supplier

SEALED AIR (NEW ZEALAND) 24 Bancroft Crescent, Glendene, Auckland, 0602, New Zealand Telephone: +64 9 813 9800; 0800 803 615 (toll free) Fax: + 64 9 813 9801 Website: http://www.sealedair.com

1.4 Emergency telephone number

Call 0800 243 622 (24 hrs)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

HSNO Classification

6.3B - Mildly irritating to the skin9.1D - Slightly harmful to the aquatic environment or are otherwise designed for biocidal action

GHS Equivalent Classification

Skin irritation, Category 3 Acute aquatic toxicity, Category 3

2.2 Label elements

Signal word: Warning

Hazard statements:

H316 - Causes mild skin irritation. H402 - Harmful to aquatic life.

Prevention statement(s):

P273 - Avoid release to the environment.

Response statement(s):

P332 + P313 - If skin irritation occurs: Get medical advice or attention.

Disposal statement(s):

P501 - Dispose of unused content as chemical waste.

2.3 Other hazards

No other hazards known.

SECTION 3: Composition/information on ingredients

3.1 Substances / Mixtures

Ingredient(s)	CAS number	EC number	Weight percent
2-butoxyethanol	111-76-2	203-905-0	3-10



2-aminoethanol	141-43-5	205-483-3	0.1-1
alkyl alcohol ethoxylate	69011-36-5	931-138-8	0.1-1
alkyldimethylbenzylammoniumchloride	68424-85-1	270-325-2	0.1-1

Non-hazardous ingredients are the remainder and add up to 100%.

* Polymer.

Workplace exposure limit(s), if available, are listed in subsection 8.1.

SECTION 4: First aid measures

4.1 Description of first aid measure	S
Inhalation:	Get medical attention or advice if you feel unwell.
Skin contact:	Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.
Eye contact:	Rinse cautiously with water for several minutes. If irritation occurs and persists, get medical attention.
Ingestion:	Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.
Self-protection of first aider:	Consider personal protective equipment as indicated in subsection 8.2.
4.2 Most important symptoms and e	effects, both acute and delayed
Inhalation	No known officets or symptoms in normal use

Inhalation:	No known effects or symptoms in normal use.
Skin contact:	No known effects or symptoms in normal use.
Eye contact:	No known effects or symptoms in normal use.
Ingestion:	No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

Poison Information Center: Call 0800 764 766 (0800 POISON)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

5.4 Hazchem code

None allocated

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures required.

6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Dilute with plenty of water. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire and explosions: No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless adviced by Sealed Air. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Use personal protective equipment as required. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a closed container. Keep only in original container. Keep from freezing. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits

Air limit values, if available:

Ingredient(s)	Long term value(s)	Short term value(s)	Ceiling value(s)
2-butoxyethanol	25 ppm		
	121 mg/m ³		
2-aminoethanol	3 ppm	6 ppm	
	7.5 mg/m ³	15 mg/m ³	

Biological limit values, if available:

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the <u>undiluted</u> product:

Appropriate engineering controls: Appropriate organisational controls:	Use only in well ventilated areas. Avoid direct contact and/or splashes where possible. Train personnel.
Personal protective equipment	
Eye / face protection:	Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 166).
Hand protection:	No special requirements under normal use conditions.
Body protection:	No special requirements under normal use conditions.
Respiratory protection:	Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

Environmental exposure controls:

No special requirements under normal use conditions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Method / remark Physical State: Liquid Colour: Clear, Pale Yellow Odour: Slightly perfumed Odour threshold: Not applicable **pH:** ≈ 10.9 (neat) ISO 4316 Melting point/freezing point (°C): Not determined Not relevant to classification of this product Initial boiling point and boiling range (°C): Not determined Flash point (°C): Not applicable. Sustained combustion: Not applicable. (UN Manual of Tests and Criteria, section 32, L.2) Evaporation rate: Not determined Not relevant to classification of this product Flammability (solid, gas): Not applicable to liquids Upper/lower flammability limit (%): Not determined Vapour pressure: Not determined Vapour density: Not determined Not relevant to classification of this product Relative density: ≈ 1.015 (20 °C) OECD 109 (EU A.3) Solubility in / Miscibility with Water: Fully miscible Partition coefficient: n-octanol/water No information available. Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3 Autoignition temperature: Not determined Decomposition temperature: Not applicable.

Viscosity: Not determined Explosive properties: Not explosive. Oxidising properties: Not oxidising

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9.2 Other information

Surface tension (N/m): Not determined Corrosion to metals: Not corrosive

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

None known under normal storage and use conditions.

10.5 Incompatible materials

Reacts with acids.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture data:.

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >5000

ATE - Dermal (mg/kg): >5000

ATE - Inhalatory, vapours (mg/l): >50

Substance data, where relevant and available, are listed below:.

Acute toxicity Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
2-butoxyethanol	LD 50	1746	Rat	Method not given	
2-aminoethanol	LD 50	1515	Rat	OECD 401 (EU B.1)	
alkyl alcohol ethoxylate	LD 50	> 2000	Rat	OECD 423 (EU B.1 tris)	
alkyldimethylbenzylammoniumchloride	LD 50	398	Rat		

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
2-butoxyethanol	LD 50	6411		Method not given	
2-aminoethanol	LD 50	1025	Rabbit	Method not given	
alkyl alcohol ethoxylate	LD 50	> 2000	Rat		
alkyldimethylbenzylammoniumchloride	LD 50	800 - 1420	Rat	Method not given	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-butoxyethanol	LC 50	> 2 (mist)	Rat	Method not given	4
2-aminoethanol		No mortality observed	Rat	Non guideline test	6
alkyl alcohol ethoxylate		No data available			
alkyldimethylbenzylammoniumchloride		No data available			

Not relevant to classification of this product

Ingredient(s)	Result	Species	Method	Exposure time
2-butoxyethanol	Irritant	Rabbit	Method not given	
2-aminoethanol	Corrosive	Rabbit	OECD 404 (EU B.4)	
alkyl alcohol ethoxylate	Not irritant	Rabbit	Weight of evidence Non guideline test	
alkyldimethylbenzylammoniumchloride	Corrosive		Method not given	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
2-butoxyethanol	Irritant	Rabbit	OECD 405 (EU B.5)	
2-aminoethanol	Severe damage	Rabbit	OECD 405 (EU B.5)	
alkyl alcohol ethoxylate	Severe damage	Rabbit	Weight of evidence Non guideline test	
alkyldimethylbenzylammoniumchloride	Severe damage		Method not given	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
2-butoxyethanol	No data available			
2-aminoethanol	Irritating to respiratory tract		Method not given	
alkyl alcohol ethoxylate	No data available			
alkyldimethylbenzylammoniumchloride	No data available			

Sensitisation Sensitisation by skin contact				
Ingredient(s)	Result	Species	Method	Exposure time (h)
2-butoxyethanol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
2-aminoethanol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
alkyl alcohol ethoxylate	Not sensitising	Guinea pig		
alkyldimethylbenzylammoniumchloride	Not sensitising		Method not given	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
2-butoxyethanol	No data available			
2-aminoethanol	No data available			
alkyl alcohol ethoxylate	No data available			
alkyldimethylbenzylammoniumchloride	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
2-butoxyethanol	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	
2-aminoethanol	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 473 OECD 476 (Mouse lymphoma)	test results	OECD 474 (EU B.12)
alkyl alcohol ethoxylate	No evidence for mutagenicity		No evidence for mutagenicity, negative test results	Weight of evidence
alkyldimethylbenzylammoniumchloride	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	

Carcinogenicity

Ingredient(s)	Effect
2-butoxyethanol	No evidence for carcinogenicity, negative test results
2-aminoethanol	No evidence for carcinogenicity, weight-of-evidence
alkyl alcohol ethoxylate	No evidence for carcinogenicity, weight-of-evidence
alkyldimethylbenzylammoniumchloride	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
2-butoxyethanol			No data available				
2-aminoethanol	NOAEL	Developmental toxicity	> 75	Rabbit	OECD 414 (EU B.31), oral		No evidence for developmental toxicity No evidence for reproductive toxicity
alkyl alcohol ethoxylate			-		Weight of evidence		No evidence for reproductive toxicity No evidence for teratogenic effects
alkyldimethylbenzylam moniumchloride			No data available				

Repeated dose toxicity

Sub-acute	or	sub-ch	ronic	oral	toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
2-butoxyethanol		No data available				
2-aminoethanol	NOAEL	300	Rat		75	
alkyl alcohol ethoxylate		No data available				
alkyldimethylbenzylammoniumchloride		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
2-butoxyethanol		No data available				
2-aminoethanol		No data available				
alkyl alcohol ethoxylate		No data available				
alkyldimethylbenzylammoniumchloride		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value	Species	Method		Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
2-butoxyethanol		No data				
		available				
2-aminoethanol		No data				
		available				
alkyl alcohol ethoxylate		No data				
		available				
alkyldimethylbenzylammoniumchloride		No data				
		available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
2-butoxyethanol			No data available					
2-aminoethanol			No data available					
alkyl alcohol ethoxylate			No data available					
alkyldimethylbenzylam moniumchloride			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
2-butoxyethanol	No data available
2-aminoethanol	No data available
alkyl alcohol ethoxylate	Not applicable
alkyldimethylbenzylammoniumchloride	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
2-butoxyethanol	No data available
2-aminoethanol	No data available
alkyl alcohol ethoxylate	Not applicable
alkyldimethylbenzylammoniumchloride	No data available

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

SECTION 12: Ecological information

12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

Aquatic short-term toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-butoxyethanol	LC 50	> 100	Fish	Method not given	96
2-aminoethanol	LC 50	349	Cyprinus carpio	OECD 203 (EU C.1)	96
alkyl alcohol ethoxylate	LC 50	1 - 10	Cyprinus carpio	OECD 203 (EU C.1)	96
alkyldimethylbenzylammoniumchloride	LC 50	> 0.1-1	Fish	Method not given	96

Aquatic short-term toxicity - crustacea					
Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-butoxyethanol	EC 50	> 100	Daphnia magna Straus	Method not given	24
2-aminoethanol	EC 50	65	Daphnia magna Straus	OECD 202, static	48
alkyl alcohol ethoxylate	EC 50	1 - 10	Daphnia magna Straus	OECD 202 (EU C.2)	48
alkyldimethylbenzylammoniumchloride	EC 50	0.02	Daphnia	Method not given	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-butoxyethanol	EC 50	> 100	Not specified	Method not given	168
2-aminoethanol	NOEC	1	Pseudokirchner iella subcapitata	OECD 201 (EU C.3)	72
alkyl alcohol ethoxylate	EC 50	1 - 10	Desmodesmus subspicatus	OECD 201 (EU C.3)	72
alkyldimethylbenzylammoniumchloride	EC 50	0.06	Pseudokirchner iella subcapitata	OECD 201 (EU C.3)	96

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
2-butoxyethanol		No data			-
		available			
2-aminoethanol		No data			-
		available			
alkyl alcohol ethoxylate		No data			-
		available			
alkyldimethylbenzylammoniumchloride		No data			-
		available			

Impact on sewage plants - toxicity to bacteria					
Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
2-butoxyethanol	EC o	700	Pseudomonas putida	Method not given	16 hour(s)
2-aminoethanol	EC 50	> 1000	Activated sludge	DIN EN ISO 8192-OECD 209-88/302/EEC	3 hour(s)
alkyl alcohol ethoxylate	EC 50	140	Activated sludge	Weight of evidence	17 hour(s)
alkyldimethylbenzylammoniumchloride	EC 20	10	Activated sludge	OECD 209	0.5 hour(s)

Aquatic long-term toxicity Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
2-butoxyethanol		No data available				
2-aminoethanol	NOEC	1.2	Oryzias latipes	OECD 210	30 day(s)	
alkyl alcohol ethoxylate	NOEC	1.73	Not specified	QSAR Weight of evidence		
alkyldimethylbenzylammoniumchloride		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/l)			time	
2-butoxyethanol		No data				
		available				
2-aminoethanol	NOEC	0.85	Daphnia	OECD 211	21 day(s)	
			magna			
alkyl alcohol ethoxylate	NOEC	1.36	Daphnia	QSAR Weight	21 hour(s)	
			magna	of evidence		

alkyldimethylbenzylammoniumchloride	No data		
	available		

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
2-butoxyethanol		No data available			-	
2-aminoethanol		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
alkyldimethylbenzylammoniumchloride		No data available			-	

Terrestrial toxicity Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
2-butoxyethanol		No data available			-	
2-aminoethanol		No data available			-	
alkyl alcohol ethoxylate	LD 50	> 1000	Eisenia fetida	OECD 207	14	
alkyldimethylbenzylammoniumchloride		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
2-butoxyethanol		No data available			-	
2-aminoethanol		No data available			-	
alkyl alcohol ethoxylate	EC 50	> 100	Triticum aestivum Lepidium sativum Brassica alba	OECD 208	-	
alkyldimethylbenzylammoniumchloride		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
2-butoxyethanol		No data available			-	
2-aminoethanol		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
alkyldimethylbenzylammoniumchloride		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
2-butoxyethanol		No data			-	
		available				
2-aminoethanol		No data			-	
		available				
alkyl alcohol ethoxylate		No data			-	
		available				
alkyldimethylbenzylammoniumchloride		No data			-	
		available				

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
2-butoxyethanol		No data available			-	
2-aminoethanol		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
alkyldimethylbenzylammoniumchloride		No data			-	

	available		

12.2 Persistence and degradability

Abiotic degradation Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
2-butoxyethanol			100 % in 28 day(s)	OECD 301B	Readily biodegradable
2-aminoethanol		DOC reduction	> 90 % in 21 day(s)	OECD 301A	Readily biodegradable
alkyl alcohol ethoxylate		CO ₂ production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
alkyldimethylbenzylammoniumchloride		Oxygen depletion	> 60%	Method not given	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log l	Kow)			
Ingredient(s)	Value	Method	Evaluation	Remark
2-butoxyethanol	0.81	OECD 107	No bioaccumulation expected	
2-aminoethanol	- 1.91	OECD 107	No bioaccumulation expected	
alkyl alcohol ethoxylate	No data available		Not relevant, does not bioaccumulate	
alkyldimethylbenzylammoniumchloride	0.5 - 1.58	Method not given	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
2-butoxyethanol	No data available				
2-aminoethanol	No data available				
alkyl alcohol ethoxylate	No data available				
alkyldimethylbenzylam moniumchloride	0.5		Method not given	No bioaccumulation expected	

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
2-butoxyethanol	No data available				Potential for mobility in soil, soluble in water
2-aminoethanol	0.067		Model calculation		Potential for mobility in soil, soluble in water Adsorption to solid soil phase is not expected
alkyl alcohol ethoxylate	No data available				
alkyldimethylbenzylammoniumchloride	No data available				

12.5 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods	The concentrated contents or contaminated packaging should be disposed of by a certified handler
Waste from residues / unused	or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging
products:	material is suitable for energy recovery or recycling in line with local legislation.
Empty packaging Recommendation: Suitable cleaning agents:	Dispose of observing national or local regulations. Water, if necessary with cleaning agent.

SECTION 14: Transport information

ADR, RID, ADN, IMO/IMDG, ICAO/IATA

14.1 UN number: Non-dangerous goods 14.2 UN proper shipping name: Non-dangerous goods 14.3 Transport hazard class(es): Non-dangerous goods 14.4 Packing group: Non-dangerous goods 14.5 Environmental hazards: Non-dangerous goods Hazchem code: None allocated

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number	HSR002530. Cleaning Products (Subsidiary Hazard) Group Standard 2006
Group standard	Cleaning Froducts (Subsidiary Hazard) Group Standard 2000
	Substances covered under this approval will not require an approved handler.
Inventory Listing(s)	New Zealand: NZIoC (New Zealand Inventory of Chemicals)
	All components are listed on the NZIoC inventory, or are exempt

SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

SDS code: MS32000085

Version: 01.0

Revision: 2017-07-05

Exposure standards - Time Weighted Average (TWA) or Workplace Exposure Standard (WES) (NZ): Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

Abbreviations and acronyms:

- DNEL Derived No Effect Limit
- · AUH GHS Specific hazard statement
- · PNEC Predicted No Effect Concentration
- ATE Acute Toxicity Estimate
- LD50 Lethal Dose, 50% / Median Lethal dose LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 effective concentration, 50%
 NOEL No observed effect level
- NOAEL No observed adverse effect level
- STOT-RE Specific target organ toxicity (repeated exposure)
- STOT-SE Specific target organ toxicity (single exposure)
- EC No. European Community Number · OECD - Organization for Economic Cooperation and Development

End of Safety Data Sheet