



Safety Data Sheet

TASKI WIPEOUT J-FILL

Revision: 2019-04-11

Version: 01.0

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier

Product name: TASKI WIPEOUT J-FILL

1.2 Recommended use and restrictions on use

Identified uses:

Hard surface cleaner

Restrictions of use:

Uses other than those identified are not recommended

1.3 Details of the supplier

DIVERSEY NEW ZEALAND LTD.

24 Bancroft Crescent, Glendene, Auckland, 0602, New Zealand

Telephone: +64 9 813 9800; 0800 803 615 (toll free)

Fax: + 64 9 813 9801

Website: www.diversey.com

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)

Call 0800 243 622 (24 hrs)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

HSNO Classification

3.1D - Flammable liquids: low hazard

6.1E - Acutely toxic (oral)

6.1E - Acutely toxic (inhalation)

6.1E - Acutely toxic (dermal)

8.2C - Corrosive to dermal tissue

8.3A - Corrosive to ocular tissue

9.1D - Slightly harmful to the aquatic environment or are otherwise designed for biocidal action

9.3C - Harmful to terrestrial vertebrates

GHS Equivalent Classification

Specific target organ toxicity (single exposure), Category 3

Flammable liquids, Category 4

Acute toxicity, oral, Category 5

Acute toxicity, inhalation, Category 5

Acute toxicity, skin, Category 5

Skin corrosion, Category 1C

Serious eye damage, Category 1

Acute aquatic toxicity, Category 2

Terrestrial vertebrates, Category 3

2.2 Label elements



Signal word: Danger

Hazard statements:

H227 - Combustible liquid.

H314 - Causes severe skin burns and eye damage.

H333 - May be harmful if inhaled.

H303 - May be harmful if swallowed.

H313 - May be harmful in contact with skin.

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H335 - May cause respiratory irritation.
H401 - Toxic to aquatic life.
H433 - Harmful to terrestrial vertebrates.

Prevention statement(s):

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P260 - Do not breathe vapours.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing and eye or face protection.

Response statement(s):

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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 CENTRE, doctor or physician.
P321 - Specific treatment (see supplemental first aid instructions on this label).
P363 - Wash contaminated clothing before reuse.
P370 + P378 - In case of fire: Use chemical powder to extinguish.

Storage statement(s):

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.

Disposal statement(s):

P501 - Dispose of unused content as chemical waste.

2.3 Other hazards

No other hazards known.

2.4 Classification diluted product:

Recommended maximum concentration (%): 7.7

HSNO Classification

6.3B - Mildly irritating to the skin
9.1D - 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

2.5 Label elements diluted product

Dilution Signal word: Warning.

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

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	30-60
propane-1,2-diol	57-55-6	200-338-0	10-30
2-aminoethanol	141-43-5	205-483-3	3-10
Alcohols, C12-14, ethoxylated	68439-50-9	500-213-3	3-10
tetrapotassium ethylene diamine tetraacetate	7379-27-3	230-943-5	3-10
potassium hydroxide	1310-58-3	215-181-3	0.1-1
d-limonene	5989-27-5	227-813-5	0.1-1
alpha-hexylcinnamaldehyde	101-86-0	202-983-3	0.1-1

[4] Polymer.

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

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

SECTION 4: First aid measures

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4.1 Description of first aid measures**General Information:**

Symptoms of intoxication may even occur after several hours. It is recommended to continue medical observation for at least 48 hours after the incident. If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Remove person to fresh air and keep comfortable for breathing. Get medical attention or advice if you feel unwell.

Inhalation:**Skin contact:**

Take off immediately all contaminated clothing and wash it before re-use. Immediately call a POISON CENTRE, doctor or physician.

Eye contact:

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.

Ingestion:

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.

Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

First aid facilities:

Shower and eyewash facilities should be considered in a workplace where necessary. Eyewash facilities should be considered in a workplace where necessary.

4.2 Most important symptoms and effects, both acute and delayed**Inhalation:**

May cause respiratory irritation.

Skin contact:

Causes severe burns.

Eye contact:

Causes severe or permanent damage.

Ingestion:

Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

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

2X

2 - Fine water spray

X - Liquid-tight chemical protective clothing and breathing apparatus. Contain.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Turn off all sources of ignition. Ventilate the area. Ensure adequate ventilation. Do not breathe dust or vapour. Wear suitable protective clothing, gloves and eye/face protection.

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

Use neutralising agent. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Ensure adequate ventilation.

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:**

Keep away from flames and hot surfaces. No smoking. Keep away from heat. Take precautionary measures against static discharges.

Measures required to protect the environment:

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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 advised by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Do not breathe vapours. 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 well-ventilated place. Store in a closed container. Keep only in original packaging. Keep cool. Keep away from heat and direct sunlight.

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		
propane-1,2-diol	150 ppm 474 mg/m ³ 10 mg/m ³		
2-aminoethanol	3 ppm 7.5 mg/m ³	6 ppm 15 mg/m ³	
potassium hydroxide			2 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 undiluted product:

Covering activities such as filling and transfer of product to application equipment, flasks or buckets

Appropriate engineering controls: If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.

Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment

Eye / face protection:

Safety glasses or goggles (EN 166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.

Hand protection:

Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.
Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm
Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm
In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

Body protection:

Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).

Respiratory protection:

Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

Environmental exposure controls: Should not reach sewage water or drainage ditch undiluted or unneutralised.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (%): 7.7

Appropriate engineering controls: No special requirements under normal use conditions.

Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment

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Eye / face protection:	No special requirements under normal use conditions.
Hand protection:	No special requirements under normal use conditions.
Body protection:	No special requirements under normal use conditions.
Respiratory protection:	No special requirements under normal use conditions.
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, Yellow Green	
Odour: Perfumed	
Odour threshold: Not applicable	
pH: ≈ 14 (neat)	ISO 4316
Dilution pH: ≈ 12 (10%)	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	
Flammability (liquid): Combustible.	
Flash point (°C): Not determined	
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: ≈ 1.020 (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. Vapours may form explosive mixtures with air.	
Oxidising properties: Not oxidising	

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): 2500

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ATE - Dermal (mg/kg): 3000
 ATE - Inhalatory, mists (mg/l): >20
 ATE - Inhalatory, vapours (mg/l): 30

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	
propane-1,2-diol	LD ₅₀	> 10000	Rat	Method not given	
2-aminoethanol	LD ₅₀	500	Rat	OECD 401 (EU B.1)	
Alcohols, C12-14, ethoxylated		No data available			
tetrapotassium ethylene diamine tetraacetate		No data available			
potassium hydroxide	LD ₅₀	333	Rat	OECD 425	
d-limonene	LD ₅₀	4400 - 5100	Rat	Method not given	
alpha-hexylcinnamaldehyde		No data available			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
2-butoxyethanol	LD ₅₀	6411		Method not given	
propane-1,2-diol	LD ₅₀	> 2000	Rabbit	Method not given	
2-aminoethanol	LD ₅₀	1025	Rabbit	Method not given	
Alcohols, C12-14, ethoxylated		No data available			
tetrapotassium ethylene diamine tetraacetate		No data available			
potassium hydroxide		No data available			
d-limonene	LD ₅₀	> 5000	Rabbit	Method not given	
alpha-hexylcinnamaldehyde		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-butoxyethanol	LC ₅₀	> 2 (mist) No mortality observed	Rat	Method not given	4
propane-1,2-diol	LC ₅₀	> 317 (mist) No mortality observed	Rabbit	Non guideline test	
2-aminoethanol	LC ₅₀	11	Rat	Method not given	4
Alcohols, C12-14, ethoxylated		No data available			
tetrapotassium ethylene diamine tetraacetate		No data available			
potassium hydroxide		No data available			
d-limonene		No data available			
alpha-hexylcinnamaldehyde		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
2-butoxyethanol	Irritant	Rabbit	OECD 404 (EU B.4)	24; 48; 72 hour(s)
propane-1,2-diol	Not irritant	Rabbit	OECD 404 (EU B.4)	
2-aminoethanol	Corrosive	Rabbit	OECD 404 (EU B.4)	
Alcohols, C12-14, ethoxylated	No data available			
tetrapotassium ethylene diamine tetraacetate	No data available			
potassium hydroxide	Corrosive	Rabbit	Draize test	
d-limonene	Irritant	Rabbit	Method not given	
alpha-hexylcinnamaldehyde	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
2-butoxyethanol	Irritant	Rabbit	OECD 405 (EU B.5)	24; 48; 72 hour(s)

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propane-1,2-diol	Not corrosive or irritant	Rabbit	OECD 405 (EU B.5)	
2-aminoethanol	Severe damage	Rabbit	OECD 405 (EU B.5)	
Alcohols, C12-14, ethoxylated	No data available			
tetrapotassium ethylene diamine tetraacetate	No data available			
potassium hydroxide	Corrosive	Rabbit	Method not given	
d-limonene	No data available			
alpha-hexylcinnamaldehyde	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
2-butoxyethanol	No data available			
propane-1,2-diol	No data available			
2-aminoethanol	Irritating to respiratory tract		Method not given	
Alcohols, C12-14, ethoxylated	No data available			
tetrapotassium ethylene diamine tetraacetate	No data available			
potassium hydroxide	No data available			
d-limonene	No data available			
alpha-hexylcinnamaldehyde	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	
propane-1,2-diol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
2-aminoethanol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
Alcohols, C12-14, ethoxylated	No data available			
tetrapotassium ethylene diamine tetraacetate	No data available			
potassium hydroxide	Not sensitising	Guinea pig	Method not given	
d-limonene	Sensitising	Guinea pig	Method not given	
alpha-hexylcinnamaldehyde	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
2-butoxyethanol	No data available			
propane-1,2-diol	No data available			
2-aminoethanol	No data available			
Alcohols, C12-14, ethoxylated	No data available			
tetrapotassium ethylene diamine tetraacetate	No data available			
potassium hydroxide	No data available			
d-limonene	No data available			
alpha-hexylcinnamaldehyde	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) OECD 476 (Chinese Hamster Ovary)	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
propane-1,2-diol	No evidence for mutagenicity, negative test results	Method not given	No data available	
2-aminoethanol	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 473 OECD 476 (Mouse lymphoma)	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
Alcohols, C12-14, ethoxylated	No data available		No data available	
tetrapotassium ethylene diamine tetraacetate	No data available		No data available	
potassium hydroxide	No evidence for mutagenicity, negative test results	Method not given	No data available	
d-limonene	No data available		No data available	
alpha-hexylcinnamaldehyde	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
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2-butoxyethanol	No evidence for carcinogenicity, negative test results
propane-1,2-diol	No evidence for carcinogenicity, negative test results
2-aminoethanol	No evidence for carcinogenicity, weight-of-evidence
Alcohols, C12-14, ethoxylated	No data available
tetrapotassium ethylene diamine tetraacetate	No data available
potassium hydroxide	No evidence for carcinogenicity, negative test results
d-limonene	No data available
alpha-hexylcinnamaldehyde	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				
propane-1,2-diol			No data available				No evidence for reproductive toxicity
2-aminoethanol	NOAEL	Developmental toxicity	> 75	Rabbit	OECD 414 (EU B.31), oral	6 - 15 day(s)	No evidence for developmental toxicity No evidence for reproductive toxicity
Alcohols, C12-14, ethoxylated			No data available				
tetrapotassium ethylene diamine tetraacetate			No data available				
potassium hydroxide			No data available				No evidence for reproductive toxicity
d-limonene			No data available				
alpha-hexylcinnamaldehyde			No data available				

Repeated dose toxicity

Sub-acute or sub-chronic 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				
propane-1,2-diol		No data available				
2-aminoethanol	NOAEL	300	Rat		75	
Alcohols, C12-14, ethoxylated		No data available				
tetrapotassium ethylene diamine tetraacetate		No data available				
potassium hydroxide		No data available				
d-limonene		No data available				
alpha-hexylcinnamaldehyde		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				
propane-1,2-diol		No data available				
2-aminoethanol		No data available				
Alcohols, C12-14, ethoxylated		No data available				
tetrapotassium ethylene diamine tetraacetate		No data available				
potassium hydroxide		No data available				
d-limonene		No data available				
alpha-hexylcinnamaldehyde		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
2-butoxyethanol		No data available				
propane-1,2-diol		No data available				
2-aminoethanol		No data available				
Alcohols, C12-14, ethoxylated		No data available				

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		available				
tetrapotassium ethylene diamine tetraacetate		No data available				
potassium hydroxide		No data available				
d-limonene		No data available				
alpha-hexylcinnamaldehyde		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					
propane-1,2-diol			No data available					
2-aminoethanol			No data available					
Alcohols, C12-14, ethoxylated			No data available					
tetrapotassium ethylene diamine tetraacetate			No data available					
potassium hydroxide			No data available					
d-limonene			No data available					
alpha-hexylcinnamaldehyde			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
2-butoxyethanol	No data available
propane-1,2-diol	No data available
2-aminoethanol	Respiratory tract
Alcohols, C12-14, ethoxylated	No data available
tetrapotassium ethylene diamine tetraacetate	No data available
potassium hydroxide	No data available
d-limonene	No data available
alpha-hexylcinnamaldehyde	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
2-butoxyethanol	No data available
propane-1,2-diol	No data available
2-aminoethanol	No data available
Alcohols, C12-14, ethoxylated	No data available
tetrapotassium ethylene diamine tetraacetate	No data available
potassium hydroxide	No data available
d-limonene	No data available
alpha-hexylcinnamaldehyde	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

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-butoxyethanol	LC ₅₀	> 100	<i>Oncorhynchus mykiss</i>	OECD 203, static	96
propane-1,2-diol	LC ₅₀	> 1000	<i>Fish</i>	Method not given	24
2-aminoethanol	LC ₅₀	349	<i>Cyprinus carpio</i>	OECD 203 (EU C.1)	96
Alcohols, C12-14, ethoxylated		No data			

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		available			
tetrapotassium ethylene diamine tetraacetate		No data available			
potassium hydroxide	LC ₅₀	80	Various species	Weight of evidence	24
d-limonene	LC ₅₀	0.72	<i>Pimephales promelas</i>	OECD 203 (EU C.1)	96
alpha-hexylcinnamaldehyde		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-butoxyethanol	EC ₅₀	> 100	<i>Daphnia magna Straus</i>	OECD 202, static	48
propane-1,2-diol	EC ₅₀	> 100	<i>Daphnia</i>	Method not given	48
2-aminoethanol	EC ₅₀	65	<i>Daphnia magna Straus</i>	OECD 202, static	48
Alcohols, C12-14, ethoxylated		No data available			
tetrapotassium ethylene diamine tetraacetate		No data available			
potassium hydroxide	EC ₅₀	30 - 1000	<i>Daphnia magna Straus</i>	Weight of evidence	-
d-limonene	EC ₅₀	0.36	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48
alpha-hexylcinnamaldehyde		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-butoxyethanol	EC ₅₀	> 100	<i>Pseudokirchneriella subcapitata</i>	OECD 201, static	72
propane-1,2-diol	EC ₅₀	24200	<i>Desmodesmus subspicatus</i>	OECD 201 (EU C.3)	72
2-aminoethanol	EC ₅₀	22		OECD 201 (EU C.3)	72
Alcohols, C12-14, ethoxylated		No data available			
tetrapotassium ethylene diamine tetraacetate		No data available			
potassium hydroxide		10		Weight of evidence	-
d-limonene	E _r C ₅₀	150	<i>Desmodesmus subspicatus</i>	OECD 201 (EU C.3)	72
alpha-hexylcinnamaldehyde		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
2-butoxyethanol		No data available			-
propane-1,2-diol		No data available			-
2-aminoethanol		No data available			-
Alcohols, C12-14, ethoxylated		No data available			
tetrapotassium ethylene diamine tetraacetate		No data available			
potassium hydroxide		No data available			-
d-limonene		No data available			-
alpha-hexylcinnamaldehyde		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
2-butoxyethanol	EC ₀	700	<i>Pseudomonas putida</i>	Method not given	16 hour(s)
propane-1,2-diol	EC ₀	> 20000	<i>Pseudomonas putida</i>	Method not given	18 hour(s)
2-aminoethanol	EC ₅₀	> 1000	Activated sludge	DIN EN ISO 8192-OECD 209-88/302/EEC	3 hour(s)
Alcohols, C12-14, ethoxylated		No data available			
tetrapotassium ethylene diamine tetraacetate		No data			

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potassium hydroxide	EC ₅₀	available	22	<i>Photobacterium phosphoreum</i>	Method not given	15 minute(s)
d-limonene		No data available				
alpha-hexylcinnamaldehyde		No data available				

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
2-butoxyethanol	NOEC	> 100	<i>Danio rerio</i>	OECD 204	21 day(s)	
propane-1,2-diol		No data available				
2-aminoethanol	NOEC	1.2	<i>Oryzias latipes</i>	OECD 210	30 day(s)	
Alcohols, C12-14, ethoxylated		No data available				
tetrapotassium ethylene diamine tetraacetate		No data available				
potassium hydroxide		No data available				
d-limonene		No data available				
alpha-hexylcinnamaldehyde		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
2-butoxyethanol	NOEC	100	<i>Daphnia magna</i>	OECD 211	21 day(s)	
propane-1,2-diol	NOEC	13020	<i>Ceriodaphnia dubia</i>	Method not given	7 day(s)	
2-aminoethanol	NOEC	0.85	<i>Daphnia magna</i>	OECD 202	21 day(s)	
Alcohols, C12-14, ethoxylated		No data available				
tetrapotassium ethylene diamine tetraacetate		No data available				
potassium hydroxide		No data available				
d-limonene		No data available				
alpha-hexylcinnamaldehyde		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
2-butoxyethanol		No data available			-	
propane-1,2-diol		No data available			-	
2-aminoethanol		No data available			-	
Alcohols, C12-14, ethoxylated		No data available				
tetrapotassium ethylene diamine tetraacetate		No data available				
potassium hydroxide		No data available			-	
d-limonene		No data available			-	
alpha-hexylcinnamaldehyde		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			-	
propane-1,2-diol		No data available			-	
2-aminoethanol		No data available			-	
potassium hydroxide		No data available			-	

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		available				
d-limonene		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			-	
propane-1,2-diol		No data available			-	
2-aminoethanol		No data available			-	
potassium hydroxide		No data available			-	
d-limonene		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
2-butoxyethanol		No data available			-	
propane-1,2-diol		No data available			-	
2-aminoethanol		No data available			-	
potassium hydroxide		No data available			-	
d-limonene		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			-	
propane-1,2-diol		No data available			-	
2-aminoethanol		No data available			-	
potassium hydroxide		No data available			-	
d-limonene		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			-	
propane-1,2-diol		No data available			-	
2-aminoethanol		No data available			-	
potassium hydroxide		No data available			-	
d-limonene		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		CO ₂ production	90.4 % in 28 day(s)	OECD 301B	Readily biodegradable
propane-1,2-diol			> 70 % in 28 day(s)	OECD 301A	Readily biodegradable
2-aminoethanol		DOC reduction	> 90 % in 21 day(s)	OECD 301A	Readily biodegradable

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Alcohols, C12-14, ethoxylated				OECD 301F	Readily biodegradable
tetrapotassium ethylene diamine tetraacetate					No data available
potassium hydroxide					Not applicable (inorganic substance)
d-limonene			80 % in 28 day(s)	OECD 301D	Readily biodegradable
alpha-hexylcinnamaldehyde					Not 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 Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
2-butoxyethanol	0.81	OECD 107	Low potential for bioaccumulation	
propane-1,2-diol	-1.07	Method not given	No bioaccumulation expected	
2-aminoethanol	- 1.91	OECD 107	No bioaccumulation expected	
Alcohols, C12-14, ethoxylated	No data available			
tetrapotassium ethylene diamine tetraacetate	No data available			
potassium hydroxide	No data available		Not relevant, does not bioaccumulate	
d-limonene	No data available		High potential for bioaccumulation	
alpha-hexylcinnamaldehyde	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
2-butoxyethanol	No data available				
propane-1,2-diol	No data available				
2-aminoethanol	No data available				
Alcohols, C12-14, ethoxylated	No data available				
tetrapotassium ethylene diamine tetraacetate	No data available				
potassium hydroxide	No data available				
d-limonene	683.1		Method not given	High potential for bioaccumulation	
alpha-hexylcinnamaldehyde	No data available				

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
propane-1,2-diol	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
Alcohols, C12-14, ethoxylated	No data available				
tetrapotassium ethylene diamine tetraacetate	No data available				
potassium hydroxide	No data available				Low potential for adsorption to soil
d-limonene	No data available				High potential for mobility in soil
alpha-hexylcinnamaldehyde	No data available				

12.5 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging 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**ADG, IMO/IMDG, ICAO/IATA****14.1 UN number:** 1760**14.2 UN proper shipping name:**

Corrosive liquid, n.o.s. (potassium hydroxide, ethanolamine)

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 8

14.4 Packing group: III**14.5 Environmental hazards:**

Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user: None known.**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** The product is not transported in bulk tankers.**Other relevant information:****Hazchem code:** 2X

This product has been classified, labelled and packaged in accordance with the requirements of the NZ Land Transport Rule: Dangerous Goods, ADG, and the provisions of the IMDG Code.

Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****HSNO Approval Number**

HSR002527.

Group standard

Cleaning Products (Corrosive, Combustible) Group Standard 2017

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: MS32000594**Version:** 01.0**Revision:** 2019-04-11

- H410 - Very toxic to aquatic life with long lasting effects.
- H411 - Toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.

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