Diversey
A SOLENIS COMPANY

Safety Data Sheet

GOODBYE GRAFFITI

Revision: 2024-07-31 **Version:** 01.0

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier
Product name: GOODBYE GRAFFITI

1.2 Recommended use and restrictions on use
Identified uses:
Graffiti remover
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: 0800 803 615 (toll free)

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

Flammable liquids, Category 3
Skin corrosion, Category 1B
Serious eye damage, Category 1
Acute toxicity, oral, Category 4
Aspiration toxicity, Category 1
Skin sensitisation, Category 1
Chronic aquatic toxicity, Category 2
Corrosive to metals, Category 1

2.2 Label elements

Signal word: Danger

Hazard statements:
H226 - Flammable liquid and vapour.
H290 - May be corrosive to metals.
H302 - Harmful if swallowed.
H304 - May be fatal if swallowed and enters airways.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H411 - Toxic to aquatic life with long lasting effects.

Prevention statement(s):
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P234 - Keep only in original packaging.
P235 - Keep cool.
P240 - Ground and bond container and receiving equipment.
P241 - Use explosion-proof electrical, ventilating or lighting equipment.
P242 - Use non-sparking tools.
P243 - Take action to prevent static discharges.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.

P272 - Contaminated work clothing should not be allowed out of the workplace.
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.
P301+ P310 - IF SWALLOWED: Immediately call a POISON CENTRE, doctor or physician.
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).
P330 - Rinse mouth.
P331 - Do NOT induce vomiting.
P362 + P364 - Take off contaminated clothing and wash it before reuse.
P363 - Wash contaminated clothing before reuse.
P370 + P378 - In case of fire: Use CO_2, dry chemical, or foam to extinguish.
P390 - Absorb spillage to prevent material damage.

Storage statement(s):
P403 - Store in a well-ventilated place.
P405 - Store locked up.
P406 - Store in corrosive-resistant container with a resistant inner liner.

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#	EC number	Weight percent
benzyl alcohol	100-51-6	202-859-9	30-60
ethanol	64-17-5	200-578-6	10-30
d-limonene	5989-27-5	227-813-5	10-30
alkyl alcohol alkoxylate	68439-51-0	[4]	3-10
potassium hydroxide	1310-58-3	215-181-3	3-10
7-methyl-3-methyleneocta-1,6-diene	123-35-3	204-622-5	0.1-1

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

[4] Polymer.
Workplace exposure limit(s), if available, are listed in subsection 8.1.

SECTION 4: First aid measures

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.

Inhalation: Remove person to fresh air and keep comfortable for breathing. Get medical attention or advice if you feel unwell.

Skin contact: Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off immediately all contaminated clothing and wash it before reuse. 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 be fatal if swallowed and enters airways.

Skin contact:	Causes severe burns. May cause an allergic skin reaction.
Eye contact:	Causes severe or permanent damage.
Ingestion:	May be fatal if swallowed and enters airways. 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. Sand. Alcohol-resistant foam. Do not use water.

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
•*3W*
- •3 - Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal foam can be used
- W - 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. Wear suitable protective clothing. Wear eye/face protection. Wear suitable gloves.

6.2 Environmental precautions
Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. 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
Dyke to collect large liquid spills. Use neutralising agent. Absorb with liquid-binding material (sand, diatomite, universal binders). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

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 heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools.

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 Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. 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)
ethanol	200 ppm 380 mg/m³	800 ppm 1520 mg/m³	
potassium hydroxide			2 mg/m³

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:

Appropriate engineering controls: Where possible: use in automated/closed system and cover open containers. Transport over pipes. Filling with automatic systems. Use tools for manual handling of product.

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

Personal protective equipment

Eye / face protection: Safety glasses or goggles (AS/NZS 1337.1). 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 (AS/NZS 2161.10). 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: No special requirements under normal use conditions.

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

	Method / remark
Physical state: Liquid	
Colour: Clear , Light , Tan	
Odour: Product specific	
Odour threshold: Not applicable	
pH: ≈ 12.5	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): Flammable.	
Flash point (°C): ≈ 26 °C	closed cup
Sustained combustion: The product sustains combustion *(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	
Lower and upper explosion limit/flammability limit (%): Not determined	
Vapour pressure: Not determined	
Relative density: ≈ 0.96 (20 °C)	OECD 109 (EU A.3)
Relative vapour density: No data available.	Not relevant to classification of this product
Particle characteristics: No data available.	Not applicable to liquids.
Solubility in / Miscibility with water: Not miscible or difficult to mix	
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.
Kinematic 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: 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
Take action to prevent static discharges.

10.5 Incompatible materials
May be corrosive to metals. 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): 2000
ATE - Dermal (mg/kg): >2000
ATE - Inhalatory, mists (mg/l): >5

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)
benzyl alcohol	LD_{50}	1200	Rat	Method not given	
ethanol	LD_{50}	5000	Rat	OECD 401 (EU B.1)	
d-limonene	LD_{50}	4400 - 5100	Rat	Method not given	
alkyl alcohol alkoxylate		No data available			
potassium hydroxide	LD_{50}	333	Rat	OECD 425	
7-methyl-3-methyleneocta-1,6-diene		No data available			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
benzyl alcohol	LD_{50}	> 2000	Rabbit	Method not given	
ethanol	LD_{50}	> 10000	Rabbit	OECD 402 (EU B.3)	
d-limonene	LD_{50}	> 5000	Rabbit	Method not given	
alkyl alcohol alkoxylate		No data available			
potassium hydroxide		No data available			
7-methyl-3-methyleneocta-1,6-diene		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
benzyl alcohol	LC_{50}	> 5 (mist)	Rat	OECD 403 (EU B.2)	4
ethanol	LC_{50}	> 1800	Rat	Non guideline test	4
d-limonene		No data available			
alkyl alcohol alkoxylate		No data available			
potassium hydroxide		No data available			
7-methyl-3-methyleneocta-1,6-diene		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
benzyl alcohol	No data available			
ethanol	Not irritant	Rabbit	OECD 404 (EU B.4)	
d-limonene	Irritant	Rabbit	Method not given	
alkyl alcohol alkoxylate	No data available			
potassium hydroxide	Corrosive	Rabbit	Draize test	
7-methyl-3-methyleneocta-1,6-diene	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
benzyl alcohol	Irritant		Method not given	
ethanol	Irritant	Rabbit	OECD 405 (EU B.5)	
d-limonene	No data available			
alkyl alcohol alkoxylate	No data available			
potassium hydroxide	Corrosive	Rabbit	Method not given	
7-methyl-3-methyleneocta-1,6-diene	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
benzyl alcohol	No data available			
ethanol	No data available			
d-limonene	No data available			
alkyl alcohol alkoxylate	No data available			
potassium hydroxide	No data available			
7-methyl-3-methyleneocta-1,6-diene	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
benzyl alcohol	Sensitising		Method not given	
ethanol	Not sensitising			
d-limonene	Sensitising	Guinea pig	Method not given	
alkyl alcohol alkoxylate	No data available			
potassium hydroxide	Not sensitising	Guinea pig	Method not given	
7-methyl-3-methyleneocta-1,6-diene	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
benzyl alcohol	Not sensitising			
ethanol	No data available			
d-limonene	No data available			
alkyl alcohol alkoxylate	No data available			
potassium hydroxide	No data available			
7-methyl-3-methyleneocta-1,6-diene	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method	Result (in-vivo)	Method

		(in-vitro)		(in-vivo)
benzyl alcohol	No data available		No data available	
ethanol	No data available		No data available	
d-limonene	No data available		No data available	
alkyl alcohol alkoxylate	No data available		No data available	
potassium hydroxide	No evidence for mutagenicity, negative test results	Method not given	No data available	
7-methyl-3-methyleneocta-1,6-diene	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
benzyl alcohol	No data available
ethanol	No data available
d-limonene	No data available
alkyl alcohol alkoxylate	No data available
potassium hydroxide	No evidence for carcinogenicity, negative test results
7-methyl-3-methyleneocta-1,6-diene	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
benzyl alcohol			No data available				
ethanol			No data available				
d-limonene			No data available				
alkyl alcohol alkoxylate			No data available				
potassium hydroxide			No data available				No evidence for reproductive toxicity
7-methyl-3-methyleneocta-1,6-diene			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
benzyl alcohol		No data available				
ethanol		No data available				
d-limonene		No data available				
alkyl alcohol alkoxylate		No data available				
potassium hydroxide		No data available				
7-methyl-3-methyleneocta-1,6-diene		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
benzyl alcohol		No data available				
ethanol		No data available				
d-limonene		No data available				
alkyl alcohol alkoxylate		No data available				
potassium hydroxide		No data available				
7-methyl-3-methyleneocta-1,6-diene		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
benzyl alcohol		No data available				
ethanol		No data available				
d-limonene		No data				

		available				
alkyl alcohol alkoxylate		No data available				
potassium hydroxide		No data available				
7-methyl-3-methyleneocta-1,6-diene		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
benzyl alcohol			No data available					
ethanol			No data available					
d-limonene			No data available					
alkyl alcohol alkoxylate			No data available					
potassium hydroxide			No data available					
7-methyl-3-methyleneocta-1,6-diene			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
benzyl alcohol	Not applicable
ethanol	No data available
d-limonene	No data available
alkyl alcohol alkoxylate	No data available
potassium hydroxide	No data available
7-methyl-3-methyleneocta-1,6-diene	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
benzyl alcohol	Not applicable
ethanol	No data available
d-limonene	No data available
alkyl alcohol alkoxylate	No data available
potassium hydroxide	No data available
7-methyl-3-methyleneocta-1,6-diene	No data available

Aspiration hazard
Substances with an aspiration hazard (H304), if any, are listed in section 3.

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)
benzyl alcohol	LC_{50}	460	*Fish*	Method not given	96
ethanol	LC_{50}	8150	*Alburnus alburnus*	Method not given	96
d-limonene	LC_{50}	0.72	*Pimephales promelas*	OECD 203 (EU C.1)	96
alkyl alcohol alkoxylate		No data available			
potassium hydroxide	LC_{50}	80	*Various species*	Weight of evidence	24
7-methyl-3-methyleneocta-1,6-diene		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
benzyl alcohol	EC_{50}	230	*Daphnia magna Straus*	Method not given	48
ethanol	EC_{50}	5012	*Daphnia magna Straus*	Method not given	48
d-limonene	EC_{50}	0.36	*Daphnia magna Straus*	OECD 202 (EU C.2)	48
alkyl alcohol alkoxylate		No data available			
potassium hydroxide	EC_{50}	30 - 1000	*Daphnia magna Straus*	Weight of evidence	
7-methyl-3-methyleneocta-1,6-diene		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
benzyl alcohol	EC_{50}	640	*Scenedesmus quadricauda*	Method not given	96
ethanol	EC_{50}	675	*Scenedesmus quadricauda Not specified*	Method not given	72
d-limonene	$E_r C_{50}$	150	*Desmodesmus subspicatus*	OECD 201 (EU C.3)	72
alkyl alcohol alkoxylate		No data available			
potassium hydroxide		No data available			
7-methyl-3-methyleneocta-1,6-diene		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
benzyl alcohol		No data available			
ethanol		No data available			
d-limonene		No data available			
alkyl alcohol alkoxylate		No data available			
potassium hydroxide		No data available			
7-methyl-3-methyleneocta-1,6-diene		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
benzyl alcohol		No data available			
ethanol	EC_{0}	6500	*Pseudomonas putida*	Method not given	16 hour(s)
d-limonene		No data available			
alkyl alcohol alkoxylate		No data available			
potassium hydroxide	EC_{50}	22	*Photobacterium phosphoreum*	Method not given	15 minute(s)
7-methyl-3-methyleneocta-1,6-diene		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
benzyl alcohol		No data available				
ethanol		No data available				
d-limonene		No data available				
alkyl alcohol alkoxylate		No data available				
potassium hydroxide		No data				

		available				
7-methyl-3-methyleneocta-1,6-diene		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
benzyl alcohol		No data available				
ethanol		No data available				
d-limonene		No data available				
alkyl alcohol alkoxylate		No data available				
potassium hydroxide		No data available				
7-methyl-3-methyleneocta-1,6-diene		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
potassium hydroxide		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
potassium hydroxide		No data available				

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
potassium hydroxide		No data available				

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
potassium hydroxide		No data available				

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
potassium hydroxide		No data available				

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
potassium hydroxide	No data available			

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
potassium hydroxide	No data available			

Abiotic degradation - other processes, if available:

Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark
potassium hydroxide		No data available			

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT_{50}	Method	Evaluation
benzyl alcohol		Method not given	95 - 97% % in 21 day(s)	Method not given	Readily biodegradable
ethanol	Activated sludge, aerobe	Oxygen depletion	> 60% in 10 day(s)	OECD 301B	Readily biodegradable
d-limonene			80 % in 28 day(s)	OECD 301D	Readily biodegradable
alkyl alcohol alkoxylate					No data available
potassium hydroxide					Not applicable (inorganic substance)
7-methyl-3-methyleneocta-1,6-diene				OECD 301D	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT_{50}	Method	Evaluation
potassium hydroxide					No data available

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
benzyl alcohol	1.05	Method not given	Low potential for bioaccumulation	
ethanol	-0.31	Weight of evidence	No bioaccumulation expected	
d-limonene	No data available		High potential for bioaccumulation	
alkyl alcohol alkoxylate	No data available			
potassium hydroxide	No data available		Not relevant, does not bioaccumulate	
7-methyl-3-methyleneocta-1,6-diene	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
benzyl alcohol	No data available			Low potential for bioaccumulation	
ethanol	0.5		Weight of evidence	No bioaccumulation expected	
d-limonene	683.1		Method not given	High potential for bioaccumulation	
alkyl alcohol alkoxylate	No data available				
potassium hydroxide	No data available				
7-methyl-3-methyleneocta-1,6-diene	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
benzyl alcohol	No data available				Potential for mobility in soil, soluble in water
ethanol	No data available				
d-limonene	No data available				High potential for mobility in soil
alkyl alcohol alkoxylate	No data available				
potassium hydroxide	No data available				Low potential for adsorption to soil
7-methyl-3-methyleneocta-1,6-diene	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: Dispose of observing national or local regulations.

SECTION 14: Transport information

ADG, IMO/IMDG, ICAO/IATA

14.1 UN number or ID number: 2924

14.2 UN proper shipping name:

Flammable liquid, corrosive, n.o.s. (ethanol , potassium hydroxide)

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 3(8)

14.4 Packing group: III

14.5 Environmental hazards:

Environmentally hazardous: Yes

Marine pollutant: Yes

14.6 Special precautions for user: None known.

14.7 Maritime transport in bulk according to IMO instruments: The product is not transported in bulk tankers.

Other relevant information:

Hazchem code: •3W

Classification code: FC

Tunnel restriction code: (D/E)

IMO/IMDG

EmS: F-E, S-C

This product has been classified, labelled and package 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	HSR002529.
Group standard	Cleaning products (Flammable, Corrosive) Group Standard 2020
Inventory Listing(s)	New Zealand: NZIoC (New Zealand Inventory of Chemicals) All components are listed on the NZIoC inventory, or are exempt
HSNO Classification	3.1C - Flammable liquids: medium hazard 6.1D - Acutely toxic (oral) 6.1E - Acutely toxic (aspiration) 6.5B - Contact sensitisers 8.1A - Corrosive to metals 8.3A - Corrosive to ocular tissue 8.2B - Corrosive to dermal tissue 9.1B - Ecotoxic in the aquatic environment

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

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Abbreviations and acronyms:

- ATE - Acute Toxicity Estimate
- AUH - Non GHS hazard statement
- DNEL - Derived No Effect Limit
- EC No. - European Community Number
- EC50 - effective concentration, 50%
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration

- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organisation for Economic Cooperation and Development
- PNEC - Predicted No Effect Concentration
- STOT-RE - Specific target organ toxicity (repeated exposure)
- STOT-SE - Specific target organ toxicity (single exposure)

End of Safety Data Sheet