

Safety Data Sheet

PERDIEM SMARTDOSE

Revision: 2018-08-19 **Version:** 01.0

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier

Product name: PERDIEM SMARTDOSE

1.2 Recommended use and restrictions on use

Identified uses:

General Purpose 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

Call 0800 243 622 (24 hrs)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

HSNO Classification

6.3A - Irritating to the skin

8.3A - Corrosive to ocular tissue

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

GHS Equivalent Classification

Skin irritation, Category 2 Serious eye damage, Category 1 Acute aquatic toxicity, Category 3

2.2 Label elements



Signal word: Danger

Hazard statements:

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H402 - Harmful to aquatic life.

Prevention statement(s):

P233 - Keep container tightly closed.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P280 - Wear protective gloves, protective clothing and eye or face protection.

Response statement(s):

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

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).

P362 - Take off contaminated clothing.

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 (%): 1.54

HSNO Classification

Not classified as hazardous

Not classified as hazardous

SECTION 3: Composition/information on ingredients

3.1 Substances / Mixtures

Ingredient(s)	CAS number	EC number	Weight percent
alkyl alcohol ethoxylate	68439-46-3	Polymer*	3-10
hydrogen peroxide	7722-84-1	231-765-0	3-10
sodium xylene sulphonate	1300-72-7	215-090-9	3-10
Alcohols, C9-11, ethoxylated	68439-46-3	Polymer*	1-3
Benzenesulfonic acid, C10-16-alkyl derivatives	68584-22-5	271-528-9	0.1-1

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

4.1 Description of first aid measures

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. If skin irritation occurs: Get medical advice

or attention.

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. Get medical attention or advice if you feel unwell.

Self-protection of first aider:Consider personal protective equipment as indicated in subsection 8.2. **First aid facilities:**Eyewash facilities should be considered in a workplace where necessary.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: No known effects or symptoms in normal use.

Skin contact: Causes irritation.

Eye contact:Ingestion:
Causes severe or permanent damage.
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

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

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 Diversey. 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. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with eyes. 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 packaging. 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)
hydrogen peroxide	1 ppm		
	1.4 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:

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: Hand protection: Safety glasses or goggles (EN 166).

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: No special requirements under normal use conditions.

Environmental exposure controls: No special requirements under normal use conditions.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (%): 1.54

Appropriate engineering controls: Use only in well ventilated areas.

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

Personal protective equipment

Eye / face protection: No special requirements under normal use conditions. Covered by respiratory protection.

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

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Physical State: Liquid
Colour: Clear, Colourless
Odour: Product specific
Odour throughold: Not applicable

Odour threshold: Not applicable

pH: ≈ 2 (neat)

Melting point/freezing point (°C): Not determined

Initial boiling point and boiling range (°C): Not determined

Flash point (°C): > 93.3

Sustained combustion: Not applicable. (UN Manual of Tests and Criteria, section 32, L.2)

Evaporation rate: Not determined

Flammability (solid, gas): Not applicable to liquids Upper/lower flammability limit (%): Not determined

Vapour pressure: Not determined Vapour density: Not determined

Relative density: ≈ 1.026 (20 °C) 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

9.2 Other information

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

0.00 %F

Method / remark

ISO 4316

Not relevant to classification of this product

closed cup

Not relevant to classification of this product

Not relevant to classification of this product

OECD 109 (EU A.3)

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 alkali. Keep away from products containing chlorine-based bleaching agents or sulphites.

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): 270

Skin irritation and corrosivity Result: No data available

Species: Not applicable

Eye irritation and corrosivity

Result: No data available Method: Bridging

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)
alkyl alcohol ethoxylate	LD 50	300 - 2000		Method not given	
hydrogen peroxide	LD 50	431-500	Rat	Substance was tested as 35 % aqueous solution Method not given	
sodium xylene sulphonate	LD 50	> 7200	Rat	Method not given	
Alcohols, C9-11, ethoxylated		No data available			
Benzenesulfonic acid, C10-16-alkyl derivatives	LD 50	> 5000	Rat	OECD 401 (EU B.1)	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate	LD 50	2000 - 5000	Rat	Method not given	
hydrogen peroxide	LD 50	> 2000	Rabbit	Substance was tested as 35 % aqueous solution	
sodium xylene sulphonate	LD 50	> 2000	Rabbit	Method not given	
Alcohols, C9-11, ethoxylated		No data available			
Benzenesulfonic acid, C10-16-alkyl derivatives	LD 50	> 2000	Rabbit	OECD 402 (EU B.3)	24 hours

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate		No data available			
hydrogen peroxide	LC o	No mortality observed	Rat	Method not given	4
sodium xylene sulphonate	LC ₀	> 6.41 (mist)	Rat	Method not given	4
Alcohols, C9-11, ethoxylated		No data available			
Benzenesulfonic acid, C10-16-alkyl derivatives	LC 50	> 1.9	Rat	OECD 403 (EU B.2)	4 hours

Irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	Not irritant		Method not given	
hydrogen peroxide	Corrosive	Rabbit	Method not given	
sodium xylene sulphonate	Mild irritant	Rabbit	OECD 404 (EU B.4)	
Alcohols, C9-11, ethoxylated	No data available			
Benzenesulfonic acid, C10-16-alkyl derivatives	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	Severe damage	Rabbit	Method not given	
hydrogen peroxide	Corrosive	Rabbit	Method not given	

sodium xylene sulphonate	Irritant	Rabbit	OECD 405 (EU B.5)	
Alcohols, C9-11, ethoxylated	No data available			
Benzenesulfonic acid, C10-16-alkyl derivatives	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	No data available			
hydrogen peroxide	Irritating to respiratory tract		Method not given	
sodium xylene sulphonate	No data available			
Alcohols, C9-11, ethoxylated	No data available			
Benzenesulfonic acid, C10-16-alkyl derivatives	No data available			

Sensitisation Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate	Not sensitising	Guinea pig	Method not given	
hydrogen peroxide	Not sensitising	Guinea pig	Method not given	
sodium xylene sulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
Alcohols, C9-11, ethoxylated	No data available			
Benzenesulfonic acid, C10-16-alkyl derivatives	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	No data available			
hydrogen peroxide	No data available			
sodium xylene sulphonate	No data available			
Alcohols, C9-11, ethoxylated	No data available			
Benzenesulfonic acid, C10-16-alkyl derivatives	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)
alkyl alcohol ethoxylate	No evidence for mutagenicity, negative test results	OECD 473	No data available	
hydrogen peroxide	No evidence for mutagenicity	OECD 471 (EU	No evidence of genotoxicity, negative	Method not
		B.12/13)	test results	given
sodium xylene sulphonate	No evidence for mutagenicity, negative	OECD 473	No evidence for mutagenicity, negative	OECD 474 (EU
	test results		test results	B.12)
Alcohols, C9-11, ethoxylated	No data available		No data available	
Benzenesulfonic acid, C10-16-alkyl derivatives	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
alkyl alcohol ethoxylate	No evidence for carcinogenicity, negative test results
hydrogen peroxide	No evidence for carcinogenicity, negative test results
sodium xylene sulphonate	No evidence for carcinogenicity, negative test results
Alcohols, C9-11, ethoxylated	No data available
Benzenesulfonic acid, C10-16-alkyl derivatives	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
alkyl alcohol ethoxylate	NOAEL		> 250	Rat	Not known		No effects on fertility No developmental toxicity
hydrogen peroxide			No data available				No evidence for reproductive toxicity
sodium xylene sulphonate	NOAEL	Teratogenic effects	> 936	Rat	Non guideline test		
Alcohols, C9-11, ethoxylated			No data available				
Benzenesulfonic acid, C10-16-alkyl derivatives			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
alkyl alcohol ethoxylate	NOAEL	80 - 400		Method not given		
hydrogen peroxide	NOAEL	100	Mouse	Method not given	90	

sodium xylene sulphonate	NOAEL	763 - 3534	Rat	OECD 408 (EU	90	
				B.26)		
Alcohols, C9-11, ethoxylated		No data				
·		available				
Benzenesulfonic acid, C10-16-alkyl derivatives		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
alkyl alcohol ethoxylate	NOAEL	80		OECD 411 (EU B.28)	90	
hydrogen peroxide		No data available				
sodium xylene sulphonate	NOAEL	> 440		OECD 411 (EU B.28)	90	
Alcohols, C9-11, ethoxylated		No data available				
Benzenesulfonic acid, C10-16-alkyl derivatives		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	
alkyl alcohol ethoxylate		No data available				
hydrogen peroxide	NOAEL	No data available	Mouse	Method not given	28	
sodium xylene sulphonate		No data available				
Alcohols, C9-11, ethoxylated		No data available				
Benzenesulfonic acid, C10-16-alkyl derivatives		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
alkyl alcohol ethoxylate			No data available					
hydrogen peroxide			No data available					
sodium xylene sulphonate	Oral		No data available	Rat	OECD 453 (EU B.33)	24 month(s)	No adverse effects observed	
Alcohols, C9-11, ethoxylated			No data available					
Benzenesulfonic acid, C10-16-alkyl derivatives			No data available					

STOT-single exposure

o 10 1-single exposure	
Ingredient(s)	Affected organ(s)
alkyl alcohol ethoxylate	No data available
hydrogen peroxide	No data available
sodium xylene sulphonate	No data available
Alcohols, C9-11, ethoxylated	No data available
Benzenesulfonic acid, C10-16-alkyl derivatives	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
alkyl alcohol ethoxylate	No data available
hydrogen peroxide	No data available
sodium xylene sulphonate	No data available
Alcohols, C9-11, ethoxylated	No data available
Benzenesulfonic acid, C10-16-alkyl derivatives	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

Potential adverse health effects and symptomsEffects 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

short-term	

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate	LC 50	5 - 7	Fish	92/69/EEC, C1, semi-static	96
hydrogen peroxide	LC 50	16.4	Pimephales promelas	Method not given	96
sodium xylene sulphonate	LC 50	> 1000	Fish	EPA-OPPTS 850.1075	96
Alcohols, C9-11, ethoxylated		No data available			
Benzenesulfonic acid, C10-16-alkyl derivatives		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate	EC 50	5.3	Daphnia	92/69/EEC	48
hydrogen peroxide	EC 50	2.4	Daphnia pulex	Method not given	48
sodium xylene sulphonate	EC 50	> 1000	Daphnia	EPA-OPPTS 850.1010	48
Alcohols, C9-11, ethoxylated		No data available			
Benzenesulfonic acid, C10-16-alkyl derivatives		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate	EC 50	1.4 - 47	Not specified	92/69/EEC	72
hydrogen peroxide	EC 50	2.5	Chlorella vulgaris	OECD 201 (EU C.3)	72
sodium xylene sulphonate	EC 50	> 230	Not specified	EPA OPPTS 850.5400	96
Alcohols, C9-11, ethoxylated		No data available			
Benzenesulfonic acid, C10-16-alkyl derivatives		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
alkyl alcohol ethoxylate		No data available			-
hydrogen peroxide	ErC 50	1.38	Skeletonema costatum	Method not given	72
sodium xylene sulphonate		No data available			-
Alcohols, C9-11, ethoxylated		No data available			
Benzenesulfonic acid, C10-16-alkyl derivatives		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
alkyl alcohol ethoxylate	EC 50	> 140	Bacteria	Method not given	3 hour(s)
hydrogen peroxide	EC 50	466	Activated sludge	Method not given	
sodium xylene sulphonate	Er C 50	> 1000	Activated sludge	OECD 209	3 hour(s)
Alcohols, C9-11, ethoxylated		No data available			
Benzenesulfonic acid, C10-16-alkyl derivatives		No data available			

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

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alkyl alcohol ethoxylate	EC 10	8.983	Not specified	Method not given	21 day(s)	
hydrogen peroxide	NOEC	4.3	Pimephales promelas	Method not given	96 hour(s)	
sodium xylene sulphonate		No data available				
Alcohols, C9-11, ethoxylated		No data available				

Benzenesulfonic acid, C10-16-alkyl derivatives		No data	1		T T	
Donzonesunomo adia, o 10-10-aryi denvatives		available				
uatic long-term toxicity - crustacea						
Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alkyl alcohol ethoxylate	EC 10	2.579	Daphnia sp.	Method not given	21 day(s)	
hydrogen peroxide	NOEC	1	Daphnia pulex	Method not given	48 hour(s)	
sodium xylene sulphonate		No data		given	† †	
Alcohols, C9-11, ethoxylated	+	available No data	 		+ +	
Benzenesulfonic acid, C10-16-alkyl derivatives	+	available No data				
· · · · · · · · · · · · · · · · · · ·		available				
uatic toxicity to other aquatic benthic organisms, incl	uding sediment	-dwelling organi	isms, if available:			
Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
alkyl alcohol ethoxylate		No data			-	
hydrogen peroxide	1	available No data			-	
sodium xylene sulphonate		available No data			-	
Alcohols, C9-11, ethoxylated		available No data			+ +	
Benzenesulfonic acid, C10-16-alkyl derivatives	1	available No data				
20.120110301101110 aoiu, 0 10-10-aikyi uerivatives		available				
errestrial toxicity						
errestrial toxicity - soil invertebrates, including earthwo Ingredient(s)		e: Value	Species	Method	Evnocura	Effects observed
	Endpoint	(mg/kg dw soil)	Species	wethod	Exposure time (days)	Ellects observed
alkyl alcohol ethoxylate		No data available			-	
hydrogen peroxide		No data available			-	
sodium xylene sulphonate		No data available			-	
	<u>'</u>				<u>. </u>	
errestrial toxicity - plants, if available: Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw soil)			time (days)	
alkyl alcohol ethoxylate		No data available			-	
hydrogen peroxide		No data available			-	
sodium xylene sulphonate		No data			-	
	1	available	1 1			
errestrial toxicity - birds, if available: Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
- ,,	Liapolit		Оронов	matriou	time (days)	Elitota obaci veu
alkyl alcohol ethoxylate		No data available			-	
hydrogen peroxide	<u></u>	No data available			-	
sodium xylene sulphonate		No data available			-	
averation to visite, the section of	•					
errestrial toxicity - beneficial insects, if available: Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
-		(mg/kg dw soil)			time (days)	
alkyl alcohol ethoxylate		No data available			-	
hydrogen peroxide		No data			-	
sodium xylene sulphonate		available No data available			-	
	1	avallable	,		1	
errestrial toxicity - soil bacteria, if available:	1 =	W.1 .	C	Mathad	[Evnaeura	Effects abassis d
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
Ingredient(s)	Endpoint	value (mg/kg dw soil)	Species	Wethod	time (days)	Effects observed

	available			
hydrogen peroxide	No data available		-	
sodium xylene sulphonate	No data available		-	

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

The first transfer of the first transfer transfe									
Ingredient(s) Half-life time		Method	Evaluation	Remark					
hydrogen peroxide	24 hour(s)	Method not given	OH radical						

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
alkyl alcohol ethoxylate			60 % in 28 day(s)	Read across	Readily biodegradable
hydrogen peroxide	Activated sludge, aerobe	Specific analysis (primary degradation)	> 50 % in < 1 day(s)		Not applicable (inorganic substance)
sodium xylene sulphonate			99.8 % in 28 day(s)	OECD 301F	Readily biodegradable
Alcohols, C9-11, ethoxylated				ISO 14593	Readily biodegradable
Benzenesulfonic acid, C10-16-alkyl derivatives	Activated sludge, aerobe	COD removal		OECD 301B	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
alkyl alcohol ethoxylate	3.11 - 4.19	Method not given	High potential for bioaccumulation	
hydrogen peroxide	-1.57		No bioaccumulation expected	
sodium xylene sulphonate	-3.12	Method not given	No bioaccumulation expected	
Alcohols, C9-11, ethoxylated	No data available			
Benzenesulfonic acid, C10-16-alkyl derivatives	No data available			

Bioconcentration factor (BCF)

Bioconcentration factor (BCF)				
Ingredient(s)	Value	Species	Method	Evaluation	Remark
alkyl alcohol ethoxylate	< 500		Method not given	High potential for bioaccumulation	
hydrogen peroxide	No data available				
sodium xylene sulphonate	No data available				
Alcohols, C9-11, ethoxylated	No data available				
Benzenesulfonic acid, C10-16-alkyl derivatives	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
alkyl alcohol ethoxylate	No data available				Potential for mobility in soil, soluble in water
hydrogen peroxide	2				Mobile in soil
sodium xylene sulphonate	No data available				
Alcohols, C9-11, ethoxylated	No data available				
Benzenesulfonic acid, C10-16-alkyl derivatives	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

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 products:

material is suitable for energy recovery or recycling in line with local legislation.

Empty packaging

Dispose of observing national or local regulations. Recommendation:

Suitable cleaning agents: Water, if necessary with cleaning agent.

SECTION 14: Transport information

Land transport, Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

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

Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user: Non-dangerous goods

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: The product is not transported in bulk tankers.

Non-dangerous goods Other relevant information: Hazchem code: None allocated

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

HSR002530. **HSNO Approval Number**

Cleaning Products (Subsidiary Hazard) Group Standard 2017 **Group standard** 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: MS32000233 Version: 01.0 Revision: 2018-08-19

- 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