Safety Data Sheet

OXIVIR FIVE 16 CONCENTRATE

Revision: 2023-10-21 **Version:** 02.2

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier
Product name: OXIVIR FIVE 16 CONCENTRATE

1.2 Recommended use and restrictions on use
Identified uses:
Cleaner/disinfectant
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

Acute toxicity, oral, Category 5
Eye irritation, Category 2
Acute aquatic toxicity, Category 2

2.2 Label elements

Signal word: Warning

Hazard statements:
H303 - May be harmful if swallowed.
H319 - Causes serious eye irritation.
H401 - Toxic to aquatic life.

Prevention statement(s):
P264 - Wash face, hands and any exposed skin thoroughly after handling.

Response statement(s):
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice or attention.

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 (% w/w): 5.9

Acute aquatic toxicity, Category 3

2.5 Label elements diluted product

Hazard statements:
H402 - Harmful to aquatic life.

SECTION 3: Composition/information on ingredients

3.1 Substances / Mixtures

Ingredient(s)	CAS#	EC number	Weight percent
1-propoxypropan-2-ol	1569-01-3	216-372-4	3-10
Benzenesulfonic acid, C10-16-alkyl derivatives	68584-22-5	271-528-9	3-10
Alcohols, C6-12, ethoxylated (>5-<10EO)	68439-45-2	932-770-7	3-10
Hydrogen peroxide	7722-84-1	231-765-0	3-10
phosphoric acid	7664-38-2	231-633-2	3-10
salicylic acid	69-72-7	200-712-3	0.1-1
propane-1,2-diol	57-55-6	200-338-0	0.1-1
sulphuric acid	7664-93-9	231-639-5	0.01-0.1
phosphonic acid	13598-36-2	237-066-7	0.01-0.1
Sulfur dioxide	7446-09-5	231-195-2	< 0.01
acetic acid	64-19-7	200-580-7	< 0.01
Phenol	108-95-2	203-632-7	< 0.01
Chlorine	7782-50-5	231-959-5	< 0.01
ethylene oxide	75-21-8	200-849-9	< 0.01

[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

4.1 Description of first aid measures

Inhalation: Get medical attention or advice if you feel unwell.

Skin contact: Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.

Eye contact: 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. If irritation occurs and persists, get medical attention.

Ingestion: Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.

Self-protection of first aider: Consider personal protective equipment as indicated in subsection 8.2.

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: No known effects or symptoms in normal use.

Eye contact: Causes severe irritation.

Ingestion: No known effects or symptoms in normal use.

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

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

SECTION 5: Firefighting measures

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

5.2 Special hazards arising from the substance or mixture
No special hazards known.

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

5.4 Hazchem code

None allocated

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
No special measures required.

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

6.3 Methods and material for containment and cleaning up
Absorb with liquid-binding material (sand, diatomite, universal binders).

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. 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/m³		
phosphoric acid	1 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:
Covering activities such as filling and transfer of product to application equipment, flasks or buckets

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
Eye / face protection: Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 16321 / EN 166).
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.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (% w/w): 5.9

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
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 , Colourless	
Odour: Product specific Surfactant	
Odour threshold: Not applicable	
pH: ≈ 0.8 (neat)	ISO 4316
Dilution pH: ≈ 2 (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): Not flammable.	
Flash point (°C): > 93.3 °C	closed cup
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	
Lower and upper explosion limit/flammability limit (%): Not determined	
Vapour pressure: Not determined	
Relative density: ≈ 1.04 (20 °C)	OECD 109 (EU A.3)
Relative vapour density: Not determined.	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.
Viscosity: ≈ 1 mPa.s (20 °C)
Explosive properties: Not explosive.
Oxidising properties: Not oxidising.

9.2 Other information
Surface tension (N/m): Not determined
Corrosion to metals: Not corrosive
1.12 %P

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): 3800
ATE - Dermal (mg/kg): >5000
ATE - Inhalatory, vapours (mg/l): 260

Skin irritation and corrosivity
Result: Not corrosive or irritant **Species:** Rabbit **Method:** OECD 404 (EU B.4), Bridging
Eye irritation and corrosivity
Result: Eye irritant 2B **Species:** Rabbit **Method:** OECD 405 (EU B.5), 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)
1-propoxypropan-2-ol	LD_{50}	> 2000	Rat	Method not given	
Benzenesulfonic acid, C10-16-alkyl derivatives	LD_{50}	> 5000	Rat	OECD 401 (EU B.1)	
Alcohols, C6-12, ethoxylated (>5-<10EO)		1200			
Hydrogen peroxide	LD_{50}	> 300-2000	Rat	Weight of evidence	
phosphoric acid	LD_{50}	> 300-5000	Rat	OECD 423 (EU B.1 tris)	
Benzene, C10-16-alkyl derivatives		No data available			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
1-propoxypropan-2-ol	LD_{50}	> 2000	Rabbit	Method not given	
Benzenesulfonic acid, C10-16-alkyl derivatives	LD_{50}	> 2000	Rabbit	OECD 402 (EU B.3)	24 hours
Alcohols, C6-12, ethoxylated (>5-<10EO)		No data available			
Hydrogen peroxide	LD_{50}	> 2000	Rabbit	Substance was tested as 35 % aqueous solution	
phosphoric acid	LD_{50}	2740	Rabbit	Method not given	
Benzene, C10-16-alkyl derivatives		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
1-propoxypropan-2-ol	LC_{50}	8.34 (vapour) No mortality observed	Rat	Method not given	4
Benzenesulfonic acid, C10-16-alkyl derivatives	LC_{50}	> 1.9	Rat	OECD 403 (EU B.2)	4 hours
Alcohols, C6-12, ethoxylated (>5-<10EO)		No data available			
Hydrogen peroxide	LC_{0}	No mortality observed (vapour)	Rat	Method not given	4
phosphoric acid	LC_{50}	850	Rat	Method not given	2
Benzene, C10-16-alkyl derivatives		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
1-propoxypropan-2-ol	Not irritant	Rabbit	Method not given	
Benzenesulfonic acid, C10-16-alkyl derivatives	No data available			
Alcohols, C6-12, ethoxylated (>5-<10EO)	No data available			
Hydrogen peroxide	Corrosive	Rabbit	Method not given	
phosphoric acid	Corrosive	Rabbit	OECD 404 (EU B.4)	
Benzene, C10-16-alkyl derivatives	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
1-propoxypropan-2-ol	Irritant	Rabbit	Method not given	
Benzenesulfonic acid, C10-16-alkyl derivatives	No data available			
Alcohols, C6-12, ethoxylated (>5-<10EO)	No data available			
Hydrogen peroxide	Corrosive	Rabbit	Method not given	
phosphoric acid	Severe damage	Rabbit	Method not given	
Benzene, C10-16-alkyl derivatives	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
1-propoxypropan-2-ol	No data available			
Benzenesulfonic acid, C10-16-alkyl derivatives	No data available			
Alcohols, C6-12, ethoxylated (>5-<10EO)	No data available			
Hydrogen peroxide	Irritating to respiratory tract		Method not given	
phosphoric acid	No data available			
Benzene, C10-16-alkyl derivatives	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
1-propoxypropan-2-ol	Not sensitising	Mouse	OECD 429 (EU B.42)	
Benzenesulfonic acid, C10-16-alkyl derivatives	No data available			
Alcohols, C6-12, ethoxylated (>5-<10EO)	No data available			
Hydrogen peroxide	Not sensitising	Guinea pig	Method not given	
phosphoric acid	Not sensitising	Human	Human experience	
Benzene, C10-16-alkyl derivatives	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
1-propoxypropan-2-ol	No data available			
Benzenesulfonic acid, C10-16-alkyl derivatives	No data available			
Alcohols, C6-12, ethoxylated (>5-<10EO)	No data available			
Hydrogen peroxide	No data available			
phosphoric acid	No data available			
Benzene, 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)
1-propoxypropan-2-ol	No evidence of genotoxicity, negative test results	Method not given	No data available	
Benzenesulfonic acid, C10-16-alkyl derivatives	No data available		No data available	
Alcohols, C6-12, ethoxylated (>5-<10EO)	No data available		No data available	
Hydrogen peroxide	No evidence for mutagenicity	OECD 471 (EU B.12/13)	No evidence of genotoxicity, negative test results	Method not given
phosphoric acid	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 473 OECD 476 (Mouse lymphoma)	No data available	
Benzene, C10-16-alkyl derivatives	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
1-propoxypropan-2-ol	No data available

Benzenesulfonic acid, C10-16-alkyl derivatives	No data available
Alcohols, C6-12, ethoxylated (>5-<10EO)	No data available
Hydrogen peroxide	No evidence for carcinogenicity, negative test results
phosphoric acid	No data available
Benzene, 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
1-propoxypropan-2-ol			No data available				No evidence for reproductive toxicity
Benzenesulfonic acid, C10-16-alkyl derivatives			No data available				
Alcohols, C6-12, ethoxylated (>5-<10EO)			No data available				
Hydrogen peroxide			No data available				No evidence for reproductive toxicity
phosphoric acid	NOAEL	Developmental toxicity	410	Rat	OECD 422, oral	10 day(s)	No evidence for reproductive toxicity No evidence for developmental toxicity
Benzene, 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
1-propoxypropan-2-ol		No data available				
Benzenesulfonic acid, C10-16-alkyl derivatives		No data available				
Alcohols, C6-12, ethoxylated (>5-<10EO)		No data available				
Hydrogen peroxide	NOAEL	100	Mouse	OECD 408 (EU B.26)	90	
phosphoric acid	NOAEL	250	Rat	OECD 422, oral		
Benzene, 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
1-propoxypropan-2-ol		No data available				
Benzenesulfonic acid, C10-16-alkyl derivatives		No data available				
Alcohols, C6-12, ethoxylated (>5-<10EO)		No data available				
Hydrogen peroxide		No data available				
phosphoric acid		No data available				
Benzene, C10-16-alkyl derivatives		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
1-propoxypropan-2-ol		No data available				
Benzenesulfonic acid, C10-16-alkyl derivatives		No data available				
Alcohols, C6-12, ethoxylated (>5-<10EO)		No data available				
Hydrogen peroxide	NOAEL	7	Mouse	OECD 413 (EU B.29)	28	
phosphoric acid		No data available				
Benzene, C10-16-alkyl derivatives		No data available				

Chronic toxicity

Ingredient(s)	Exposure	Endpoint	Value	Species	Method	Exposure	Specific effects and	Remark

	route		(mg/kg bw/d)			time	organs affected	
1-propoxypropan-2-ol			No data available					
Benzenesulfonic acid, C10-16-alkyl derivatives			No data available					
Alcohols, C6-12, ethoxylated (>5-<10EO)			No data available					
Hydrogen peroxide			No data available					
phosphoric acid			No data available					
Benzene, C10-16-alkyl derivatives			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
1-propoxypropan-2-ol	No data available
Benzenesulfonic acid, C10-16-alkyl derivatives	No data available
Alcohols, C6-12, ethoxylated (>5-<10EO)	No data available
Hydrogen peroxide	No data available
phosphoric acid	No data available
Benzene, C10-16-alkyl derivatives	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
1-propoxypropan-2-ol	No data available
Benzenesulfonic acid, C10-16-alkyl derivatives	No data available
Alcohols, C6-12, ethoxylated (>5-<10EO)	No data available
Hydrogen peroxide	No data available
phosphoric acid	No data available
Benzene, 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 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)
1-propoxypropan-2-ol	LC_{50}	> 100	*Oncorhynchus mykiss*	OECD 203, static	96
Benzenesulfonic acid, C10-16-alkyl derivatives	LC_{50}	1.67	*Lepomis macrochirus*		
Alcohols, C6-12, ethoxylated (>5-<10EO)		No data available			
Hydrogen peroxide	LC_{50}	16.4	*Pimephales promelas*	EPA-OPPTS 850.1075	96
phosphoric acid	LC_{50}	138	*Gambusia affinis*	Method not given	96
Benzene, C10-16-alkyl derivatives		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
1-propoxypropan-2-ol	EC_{50}	> 100	*Daphnia magna Straus*	OECD 202, static	48
Benzenesulfonic acid, C10-16-alkyl derivatives	EC_{50}	2.4	*Daphnia*	Read across	48
Alcohols, C6-12, ethoxylated (>5-<10EO)		No data			

		available			
Hydrogen peroxide	EC_{50}	2.4	*Daphnia pulex*	Method not given	48
phosphoric acid	EC_{50}	> 100	*Daphnia magna Straus*	OECD 202 (EU C.2)	48
Benzene, C10-16-alkyl derivatives		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
1-propoxypropan-2-ol	$E_r C_{50}$	1466	*Pseudokirchneriella subcapitata*	OECD 201, static	96
Benzenesulfonic acid, C10-16-alkyl derivatives	EC_{50}	0.91	*Not specified*	Read across	96
Alcohols, C6-12, ethoxylated (>5-<10EO)		No data available			
Hydrogen peroxide	EC_{50}	1.38	*Chlorella vulgaris*	OECD 201 (EU C.3)	72
phosphoric acid	EC_{50}	> 100	*Desmodesmus subspicatus*	OECD 201 (EU C.3)	72
Benzene, C10-16-alkyl derivatives		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
1-propoxypropan-2-ol		No data available			
Benzenesulfonic acid, C10-16-alkyl derivatives		No data available			
Alcohols, C6-12, ethoxylated (>5-<10EO)		No data available			
Hydrogen peroxide	ErC_{50}	1.38	*Skeletonema costatum*	Method not given	72
phosphoric acid		No data available			
Benzene, C10-16-alkyl derivatives		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
1-propoxypropan-2-ol	EC_{50}	3800	*Bacteria*	Method not given	16 hour(s)
Benzenesulfonic acid, C10-16-alkyl derivatives		No data available			
Alcohols, C6-12, ethoxylated (>5-<10EO)		No data available			
Hydrogen peroxide	EC_{50}	466	*Activated sludge*	Method not given	
phosphoric acid	EC_{50}	270	*Activated sludge*	Method not given	
Benzene, 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
1-propoxypropan-2-ol		No data available				
Benzenesulfonic acid, C10-16-alkyl derivatives		No data available				
Alcohols, C6-12, ethoxylated (>5-<10EO)		No data available				
Hydrogen peroxide	NOEC	4.3	*Pimephales promelas*	Method not given	96 hour(s)	
phosphoric acid		No data available				
Benzene, C10-16-alkyl derivatives		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
1-propoxypropan-2-ol		No data available				
Benzenesulfonic acid, C10-16-alkyl derivatives		No data				

		available				
Alcohols, C6-12, ethoxylated (>5-<10EO)		No data available				
Hydrogen peroxide	NOEC	1	*Daphnia pulex*	Method not given	48 hour(s)	
phosphoric acid		No data available				
Benzene, C10-16-alkyl derivatives		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
Hydrogen peroxide		No data available				
phosphoric acid		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
Hydrogen peroxide		No data available				
phosphoric acid		No data available				

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Hydrogen peroxide		No data available				
phosphoric acid		No data available				

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
Hydrogen peroxide		No data available				
phosphoric acid		No data available				

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Hydrogen peroxide		No data available				
phosphoric acid		No data available				

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Hydrogen peroxide		No data available				
phosphoric acid		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
Hydrogen peroxide	24 hour(s)	Method not given	OH radical	
phosphoric acid	No data available			

Abiotic degradation - hydrolysis, if available:

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

phosphoric acid	No data available			

Abiotic degradation - other processes, if available:

Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark
Hydrogen peroxide		No data available			
phosphoric acid		No data available			

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT_{50}	Method	Evaluation
1-propoxypropan-2-ol	Activated sludge, aerobe	DOC reduction	91.5 % in 28 day(s)	OECD 301A	Readily biodegradable
Benzenesulfonic acid, C10-16-alkyl derivatives				OECD 301D	Readily biodegradable
Alcohols, C6-12, ethoxylated (>5-<10EO)	Activated sludge, aerobe		90% in 28 day(s)	OECD 301B	Readily biodegradable
Hydrogen peroxide	Activated sludge, aerobe	Specific analysis (primary degradation)	> 50 % in < 1 day(s)		Not applicable (inorganic substance)
phosphoric acid					Not applicable (inorganic substance)
Benzene, C10-16-alkyl derivatives				OECD 301B	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT_{50}	Method	Evaluation
Hydrogen peroxide					No data available
phosphoric acid					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT_{50}	Method	Evaluation
Hydrogen peroxide					No data available
phosphoric acid					No data available

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
1-propoxypropan-2-ol	0.621	Method not given	Low potential for bioaccumulation	at 20 °C
Benzenesulfonic acid, C10-16-alkyl derivatives	No data available			
Alcohols, C6-12, ethoxylated (>5-<10EO)	No data available			
Hydrogen peroxide	-1.57		No bioaccumulation expected	
phosphoric acid	No data available		No bioaccumulation expected	
Benzene, C10-16-alkyl derivatives	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
1-propoxypropan-2-ol	< 100				
Benzenesulfonic acid, C10-16-alkyl derivatives	No data available				
Alcohols, C6-12, ethoxylated (>5-<10EO)	No data available				
Hydrogen peroxide	1.4		QSAR	Low potential for bioaccumulation	
phosphoric acid	No data available			No bioaccumulation expected	
Benzene, 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
1-propoxypropan-2-ol	1-1.9		Method not given		High potential for mobility in soil
Benzenesulfonic acid, C10-16-alkyl derivatives	No data available				
Alcohols, C6-12, ethoxylated (>5-<10EO)	No data available				
Hydrogen peroxide	2				Mobile in soil
phosphoric acid	No data available				Potential for mobility in soil,

					soluble in water
Benzene, 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 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.
Suitable cleaning agents: Water, if necessary with cleaning agent.

SECTION 14: Transport information

ADG, IMO/IMDG, ICAO/IATA
14.1 UN number or ID 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
14.6 Special precautions for user: Non-dangerous goods
14.7 Maritime transport in bulk according to IMO instruments: The product is not transported in bulk tankers. Non-dangerous goods

Other relevant information:
Hazchem code: None allocated

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 HSR002530.
Group standard Cleaning Products (Subsidiary Hazard) 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 6.1E - Acutely toxic (oral)
6.4A - Irritating to the eye
9.1D - Slightly harmful to the aquatic environment or are otherwise designed for biocidal action

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: MS32000227 **Version:** 02.2 **Revision:** 2023-10-21

Reason for revision:
1, Not applicable

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 - Non GHS 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 - Organisation for Economic Cooperation and Development

End of Safety Data Sheet