Safety Data Sheet

According to Regulation (EC) No 1907/2006

Oxivir Excel®

Revision: 2022-07-19 **Version:** 01.6

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Trade name: Oxivir Excel®

UFI: 54V2-5013-H00K-ARAR

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use:	Surface disinfectant. Hard surface cleaner. For professional use only.
Uses advised against:	Uses other than those identified are not recommended.

SWED - Sector-specific worker exposure description :
AISE_SWED_PW_8a_1
AISE_SWED_PW_8b_1
AISE_SWED_PW_10_1
AISE_SWED_PW_11_1
AISE_SWED_PW_19_1

1.3 Details of the supplier of the safety data sheet
Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

Contact details
Diversey Ltd
Weston Favell Centre, Northampton NN3 8PD, United Kingdom
Tel: 01604 405311, Fax: 01604 406809
Regulatory Email: customerservice.uk@diversey.com

1.4 Emergency telephone number
Seek medical advice (show the label or safety data sheet where possible)
For medical or environmental emergency only:
call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Skin Corr. 1C (H314)
Eye Dam. 1 (H318)
Aquatic Chronic 3 (H412)
Met. Corr. 1 (H290)

2.2 Label elements

Signal word: Danger.

Contains alkylbenzenesulphonic acid (Dodecylbenzene Sulfonic Acid)

Hazard statements:
H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements:

P280 - Wear protective gloves, protective clothing and eye or face protection.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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.

2.3 Other hazards
No other hazards known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
alkylbenzenesulphonic acid	287-494-3	85536-14-7	01-2119490234-40	Skin Corr. 1C (H314) Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)		10-20
(2-methoxymethylethoxy)propanol	252-104-2	34590-94-8	01-2119450011-60	Not classified as hazardous		10-20
hydrogen peroxide	231-765-0	7722-84-1	[6]	Ox. Liq. 1 (H271) Skin Corr. 1A (H314) Acute Tox. 4 (H302) Acute Tox. 4 (H332) STOT SE 3 (H335) Aquatic Chronic 3 (H412)		3-10
methanesulphonic acid	200-898-6	75-75-2	01-2119491166-34	Skin Corr. 1B (H314) Acute Tox. 4 (H302) Acute Tox. 4 (H312) STOT SE 3 (H335) Eye Dam. 1 (H318) Met. Corr. 1 (H290)		1-3
Alcohols, C9-11, ethoxylated	[4]	68439-46-3	[4]	Eye Dam. 1 (H318)		1-3

Specific concentration limits
hydrogen peroxide:
• Eye Dam. 1 (H318) >= 8% > Eye Irrit. 2 (H319) >= 5%
• Skin Corr. 1A (H314) >= 70% > Skin Corr. 1A (H314) >= 60% > Skin Corr. 1B (H314) >= 50% > Skin Irrit. 2 (H315) >= 35%
• STOT SE 3 (H335) >= 35%

Workplace exposure limit(s), if available, are listed in subsection 8.1.
ATE, if available, are listed in section 11.
[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.
[6] Exempted: biocidal active. See Article 15(2) of Regulation (EC) No 1907/2006.
For the full text of the H and EUH phrases mentioned in this Section, see Section 16..

SECTION 4: First aid measures

4.1 Description of first aid measures

General Information: 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: 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.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: No known effects or symptoms in normal use.

Skin contact: Causes severe burns.

Eye contact: Causes severe or permanent damage.

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

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Do not breathe dust or vapour. Wear suitable protective clothing. Wear eye/face protection. Wear suitable gloves.

6.2 Environmental precautions
Dilute with plenty of water. 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
Ensure adequate ventilation. Dyke to collect large liquid spills. Use neutralising agent. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). 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:
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 face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Do not breathe vapours. Do not breathe spray. 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. Keep from freezing.
For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)
No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Workplace exposure limits

Air limit values, if available:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
(2-methoxymethylethoxy)propanol	50 ppm 308 mg/m³	150 ppm 924 mg/m³
hydrogen peroxide	1 ppm 1.4 mg/m³	2 ppm 2.8 mg/m³

Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

DNEL/DMEL and PNEC values

Human exposure

DNEL/DMEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
alkylbenzenesulphonic acid	-	-	-	0.425
(2-methoxymethylethoxy)propanol	-	-	-	36
hydrogen peroxide	-	-	-	-
methanesulphonic acid	-	-	-	8.33
Alcohols, C9-11, ethoxylated	-	-	-	25

DNEL/DMEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
alkylbenzenesulphonic acid	-	-	-	85
(2-methoxymethylethoxy)propanol	No data available	-	No data available	283
hydrogen peroxide	-	-	-	-
methanesulphonic acid	No data available	-	No data available	19.44
Alcohols, C9-11, ethoxylated	-	-	-	-

DNEL/DMEL dermal exposure - Consumer

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
alkylbenzenesulphonic acid	-	-	-	42.5
(2-methoxymethylethoxy)propanol	No data available	-	No data available	15
hydrogen peroxide	-	-	-	-
methanesulphonic acid	No data available	-	No data available	8.33
Alcohols, C9-11, ethoxylated	-	-	-	-

DNEL/DMEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
alkylbenzenesulphonic acid	-	-	-	6
(2-methoxymethylethoxy)propanol	-	-	-	308
hydrogen peroxide	3	-	1.4	-
methanesulphonic acid	-	-	2.89	6.76
Alcohols, C9-11, ethoxylated	-	-	-	294

DNEL/DMEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
alkylbenzenesulphonic acid	-	-	-	1.5
(2-methoxymethylethoxy)propanol	-	-	-	37.2
hydrogen peroxide	1.93	-	0.21	-
methanesulphonic acid	-	1.44	1.73	1.44
Alcohols, C9-11, ethoxylated	-	-	-	87

Environmental exposure

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
alkylbenzenesulphonic acid	0.268	0.027	0.017	3.43
(2-methoxymethylethoxy)propanol	19	1.9	190	4168
hydrogen peroxide	0.0126	0.0126	0.0138	4.66
methanesulphonic acid	0.012	0.0012	0.12	100
Alcohols, C9-11, ethoxylated	-	-	-	-

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
alkylbenzenesulphonic acid	8.1	6.8	35	-
(2-methoxymethylethoxy)propanol	70.2	7.02	2.74	190
hydrogen peroxide	0.047	0.047	0.0023	-
methanesulphonic acid	0.0251	-	0.00183	0.12
Alcohols, C9-11, ethoxylated	-	-	-	-

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: 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.

REACH use scenarios considered for the undiluted product:

	SWED - Sector-specific worker exposure description	LCS	PROC	Duration (min)	ERC
Manual transfer and dilution	AISE_SWED_PW_8a_1	PW	PROC 8a	60	ERC8a
Manual transfer and dilution	AISE_SWED_PW_8b_1	PW	PROC 8b	60	ERC8b

Personal protective equipment
Eye / face protection: Safety glasses or goggles (EN 166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.
Hand protection: Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.
Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm
Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm
In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.
Body protection: No special requirements under normal use conditions. Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).
Respiratory protection: If exposure to liquid particles or splashes cannot be avoided use: half mask (EN 140) with particle filter P2 (EN 143) or full-face mask (EN 136) with particle filter P1 (EN 143) Consider specific local use conditions. In consultation with the supplier of respiratory protection equipment a different type providing similar protection may be chosen. Specific applications tools may be available to limit exposure. Please refer to the product information sheet for the possibilities. Apply technical measures to comply with the occupational exposure limits, if available.

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

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (% w/w): 5

Appropriate engineering controls: Provide a good standard of general ventilation.
Appropriate organisational controls: No special requirements under normal use conditions.

REACH use scenarios considered for the diluted product:

	SWED	LCS	PROC	Duration (min)	ERC
Manual application by brushing, wiping or mopping	AISE_SWED_PW_10_1	PW	PROC 10	480	ERC8a
Spray application	AISE_SWED_PW_11_1	PW	PROC 11	60	ERC8a
Manual application	AISE_SWED_PW_19_1	PW	PROC 19	480	ERC8a

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: Trigger spray bottle application: No special requirements under normal use conditions. Apply technical measures to comply with the occupational exposure limits, if available.

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
Information in this section refers to the product, unless it is specifically stated that substance data is listed

Method / remark

Physical state: Liquid

Colour: Clear , Light , Yellow
Odour: Product specific
Odour threshold: Not applicable
Melting point/freezing point (°C): Not determined — Not relevant to classification of this product
Initial boiling point and boiling range (°C): Not determined — See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
alkylbenzenesulphonic acid	190	Method not given	
(2-methoxymethylethoxy)propanol	189.6	Method not given	1013
hydrogen peroxide	150.2	Method not given	
methanesulphonic acid	167	Method not given	
Alcohols, C9-11, ethoxylated	No data available		

Method / remark

Flammability (solid, gas): Not applicable to liquids
Flammability (liquid): Not flammable.
Flash point (°C): Not applicable.
Sustained combustion: Not applicable.
(UN Manual of Tests and Criteria, section 32, L.2)
Lower and upper explosion limit/flammability limit (%): Not determined — See substance data

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
(2-methoxymethylethoxy)propanol	1.1	14

Method / remark

Autoignition temperature: Not determined
Decomposition temperature: Not applicable.
pH: =< 2 (neat) — ISO 4316
Dilution pH: < 2 (5 %) — ISO 4316
Kinematic viscosity: Not determined
Solubility in / Miscibility with water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
alkylbenzenesulphonic acid	> 10	Method not given	20
(2-methoxymethylethoxy)propanol	Soluble	Method not given	20
hydrogen peroxide	1000	Method not given	20
methanesulphonic acid	Soluble		
Alcohols, C9-11, ethoxylated	No data available		

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Method / remark

Vapour pressure: Not determined — See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
alkylbenzenesulphonic acid	0.15		20
(2-methoxymethylethoxy)propanol	5500	Method not given	20
hydrogen peroxide	214	Method not given	20
methanesulphonic acid	0.0475	Method not given	20
Alcohols, C9-11, ethoxylated	No data available		

Method / remark

Relative density: ≈ 1.07 (20 °C) — OECD 109 (EU A.3)
Relative vapour density: -. — Not relevant to classification of this product
Particle characteristics: No data available. — Not applicable to liquids.

9.2 Other information
9.2.1 Information with regard to physical hazard classes
Explosive properties: Not explosive.
Oxidising properties: Not oxidising.
Corrosion to metals: Corrosive — UN Manual of Tests and Criteria, section 37

9.2.2 Other safety characteristics
Acid reserve: ≈ -3.1 (g NaOH / 100g; pH=4)

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
May be corrosive to metals. 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): >2000
ATE - Dermal (mg/kg): >2000
ATE - Inhalatory, vapours (mg/l): >20

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)	ATE (mg/kg)
alkylbenzenesulphonic acid	LD_{50}	1470	Rat	OECD 401 (EU B.1)		2600
(2-methoxymethylethoxy)propanol	LD_{50}	> 5000	Rat	OECD 401 (EU B.1)		Not established
hydrogen peroxide	LD_{50}	> 300-2000	Rat	Weight of evidence		16000
methanesulphonic acid	LD_{50}	649	Rat	OECD 401 (EU B.1)		20000
Alcohols, C9-11, ethoxylated	LD_{50}	1400				Not established

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
alkylbenzenesulphonic acid	LD_{50}	> 2000	Rat	OECD 402 (EU B.3)		Not established
(2-methoxymethylethoxy)propanol	LD_{50}	9510	Rabbit	Method not given		Not established
hydrogen peroxide	LD_{50}	> 2000	Rabbit	Substance was tested as 35 % aqueous solution		Not established
methanesulphonic acid	LD_{50}	> 1000	Rabbit	OECD 402 (EU B.3)		41000
Alcohols, C9-11, ethoxylated	LD_{50}	> 2000				Not established

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkylbenzenesulphonic acid		No data available			
(2-methoxymethylethoxy)propanol	LC_0	> 1.667 (vapour) No mortality observed	Rat		7
hydrogen peroxide	LC_0	No mortality observed (vapour)	Rat	Method not given	4
methanesulphonic acid	LC_0	> 0.0188	Mouse	Method not given	1

		(vapour) No mortality observed			
Alcohols, C9-11, ethoxylated		No data available			

Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust (mg/l)	ATE - inhalation, mist (mg/l)	ATE - inhalation, vapour (mg/l)	ATE - inhalation, gas (mg/l)
alkylbenzenesulphonic acid	Not established	Not established	Not established	Not established
(2-methoxymethylethoxy)propanol	Not established	Not established	Not established	Not established
hydrogen peroxide	Not established	Not established	150	Not established
methanesulphonic acid	Not established	Not established	Not established	Not established
Alcohols, C9-11, ethoxylated	Not established	Not established	Not established	Not established

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkylbenzenesulphonic acid	Corrosive	Rabbit	OECD 404 (EU B.4)	
(2-methoxymethylethoxy)propanol	Not irritant		Method not given	
hydrogen peroxide	Corrosive	Rabbit	Method not given	
methanesulphonic acid	Corrosive	Mouse		1 hour(s)
Alcohols, C9-11, ethoxylated	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkylbenzenesulphonic acid	Severe damage	Rabbit	OECD 405 (EU B.5)	
(2-methoxymethylethoxy)propanol	Not corrosive or irritant		Method not given	
hydrogen peroxide	Corrosive	Rabbit	Method not given	
methanesulphonic acid	Severe damage	Rabbit	OECD 405 (EU B.5)	
Alcohols, C9-11, ethoxylated	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkylbenzenesulphonic acid	No data available			
(2-methoxymethylethoxy)propanol	No data available			
hydrogen peroxide	Irritating to respiratory tract		Method not given	
methanesulphonic acid	No data available			
Alcohols, C9-11, ethoxylated	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
alkylbenzenesulphonic acid	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
(2-methoxymethylethoxy)propanol	Not sensitising		Method not given	
hydrogen peroxide	Not sensitising	Guinea pig	Method not given	
methanesulphonic acid	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
Alcohols, C9-11, ethoxylated	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
alkylbenzenesulphonic acid	No data available			
(2-methoxymethylethoxy)propanol	No data available			
hydrogen peroxide	No data available			
methanesulphonic acid	No data available			
Alcohols, C9-11, ethoxylated	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)
alkylbenzenesulphonic acid	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 473	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
(2-methoxymethylethoxy)propanol	No evidence for mutagenicity, negative	Method not	No data available	

	test results	given		
hydrogen peroxide	No evidence for mutagenicity	OECD 471 (EU B.12/13)	No evidence of genotoxicity, negative test results	Method not given
methanesulphonic acid	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
Alcohols, C9-11, ethoxylated	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
alkylbenzenesulphonic acid	No evidence for carcinogenicity, weight-of-evidence
(2-methoxymethylethoxy)propanol	No evidence for carcinogenicity, negative test results
hydrogen peroxide	No evidence for carcinogenicity, negative test results
methanesulphonic acid	No data available
Alcohols, C9-11, ethoxylated	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
alkylbenzenesulphonic acid	NOAEL	Teratogenic effects	300	Rat	Read across	20 day(s)	
(2-methoxymethylethoxy)propanol			No data available				No evidence for reproductive toxicity
hydrogen peroxide			No data available				No evidence for reproductive toxicity
methanesulphonic acid	NOAEL	Impaired fertility Developmental toxicity	≥ 400	Rat	OECD 414 (EU B.31), oral OECD 421, oral		No evidence for reproductive toxicity
Alcohols, C9-11, ethoxylated			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
alkylbenzenesulphonic acid		No data available				
(2-methoxymethylethoxy)propanol		No data available				
hydrogen peroxide	NOAEL	100	Mouse	OECD 408 (EU B.26)	90	
methanesulphonic acid		No data available				
Alcohols, C9-11, ethoxylated		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
alkylbenzenesulphonic acid		No data available				
(2-methoxymethylethoxy)propanol		No data available				
hydrogen peroxide		No data available				
methanesulphonic acid		No data available				
Alcohols, C9-11, ethoxylated		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
alkylbenzenesulphonic acid		No data available				
(2-methoxymethylethoxy)propanol		No data available				
hydrogen peroxide	NOAEL	7	Mouse	OECD 413 (EU B.29)	28	
methanesulphonic acid	NOAEL	0.026	Rat	Method not given	30	
Alcohols, C9-11, ethoxylated		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	
alkylbenzenesulphonic acid	Oral	NOAEL	85	Rat	Read across	9 month(s)		
(2-methoxymethylethoxy)propanol			No data available					
hydrogen peroxide			No data available					
methanesulphonic acid			No data available					
Alcohols, C9-11, ethoxylated			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
alkylbenzenesulphonic acid	No data available
(2-methoxymethylethoxy)propanol	No data available
hydrogen peroxide	No data available
methanesulphonic acid	Respiratory tract
Alcohols, C9-11, ethoxylated	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
alkylbenzenesulphonic acid	No data available
(2-methoxymethylethoxy)propanol	No data available
hydrogen peroxide	No data available
methanesulphonic acid	Respiratory tract
Alcohols, C9-11, ethoxylated	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.

11.2 Information on other hazards
11.2.1 Endocrine disrupting properties
Endocrine disrupting properties - Human data, if available:

11.2.2 Other information
No other relevant information available.

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)
alkylbenzenesulphonic acid	LC_{50}	1 - 10	*Cyprinus carpio*	OECD 203 (EU C.1)	96
(2-methoxymethylethoxy)propanol	LC_{50}	> 1000	*Poecilia reticulata*	Method not given	96
hydrogen peroxide	LC_{50}	16.4	*Pimephales promelas*	EPA-OPPTS 850.1075	96
methanesulphonic acid	LC_{50}	73	*Oncorhynchus mykiss*	OECD 203 (EU C.1)	96
Alcohols, C9-11, ethoxylated	LC_{50}	6	*Oncorhynchus mykiss*	Method not given	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkylbenzenesulphonic acid	EC_{50}	1 - 10	*Daphnia magna Straus*	OECD 202 (EU C.2)	48
(2-methoxymethylethoxy)propanol	EC_{50}	1919	*Daphnia magna Straus*	Method not given	48
hydrogen peroxide	EC_{50}	2.4	*Daphnia pulex*	Method not given	48
methanesulphonic acid	EC_{50}	10 - 100	*Daphnia*	OECD 202, static	48

			magna Straus		
Alcohols, C9-11, ethoxylated	EC_{50}	2.5	*Daphnia*	Method not given	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkylbenzenesulphonic acid	EC_{50}	10 - 100	*Desmodesmus subspicatus*	OECD 201 (EU C.3)	72
(2-methoxymethylethoxy)propanol	EC_{50}	> 969	*Selenastrum capricornutum*	Method not given	72
hydrogen peroxide	EC_{50}	1.38	*Chlorella vulgaris*	OECD 201 (EU C.3)	72
methanesulphonic acid	EC_{50}	12 - 24	*Pseudokirchneriella subcapitata*	OECD 201 (EU C.3)	72
Alcohols, C9-11, ethoxylated	E_rC_{50}	1-10	*Not specified*	Method not given	96

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
alkylbenzenesulphonic acid		No data available			
(2-methoxymethylethoxy)propanol		No data available			
hydrogen peroxide	ErC_{50}	1.38	*Skeletonema costatum*	Method not given	72
methanesulphonic acid		No data available			
Alcohols, C9-11, ethoxylated		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
alkylbenzenesulphonic acid		No data available			
(2-methoxymethylethoxy)propanol	EC_{10}	4168	*Pseudomonas putida*	Method not given	
hydrogen peroxide	EC_{50}	466	*Activated sludge*	Method not given	
methanesulphonic acid	EC_{20}	> 1000	*Activated sludge*	DIN EN ISO 8192-OECD 209-88/302/EEC	0.5 hour(s)
Alcohols, C9-11, ethoxylated		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alkylbenzenesulphonic acid	NOEC	0.1 - 1	*Lepomis macrochirus*	Read across	28 day(s)	
(2-methoxymethylethoxy)propanol		No data available				
hydrogen peroxide	NOEC	4.3	*Pimephales promelas*	Method not given	96 hour(s)	
methanesulphonic acid		No data available				
Alcohols, C9-11, ethoxylated		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alkylbenzenesulphonic acid	NOEC	1 - 10	*Not specified*	Read across	32 day(s)	
(2-methoxymethylethoxy)propanol	NOEC	> 0.5	*Daphnia magna*	Method not given	22 day(s)	
hydrogen peroxide	NOEC	1	*Daphnia pulex*	Method not given	48 hour(s)	
methanesulphonic acid		No data available				
Alcohols, C9-11, ethoxylated		No data available				

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

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed

		(mg/kg dw sediment)			time (days)	
alkylbenzenesulphonic acid		No data available				
(2-methoxymethylethoxy)propanol		No data available				
hydrogen peroxide		No data available				
methanesulphonic acid		No data available				
Alcohols, C9-11, ethoxylated		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
alkylbenzenesulphonic acid	LD_{50}	> 1000	*Eisenia fetida*	OECD 207	14	
hydrogen peroxide		No data available				

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
alkylbenzenesulphonic acid	EC_{50}	167		OECD 208	21	
hydrogen peroxide		No data available				

Terrestrial toxicity - birds, if available:

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

Terrestrial toxicity - beneficial insects, if available:

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

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
alkylbenzenesulphonic acid		No data available				
hydrogen peroxide		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
alkylbenzenesulphonic acid	No data available			
(2-methoxymethylethoxy)propanol	< 1 day(s)	Method not given	Rapidly photodegradable	
hydrogen peroxide	24 hour(s)	Method not given	OH radical	

Abiotic degradation - hydrolysis, if available:

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

Abiotic degradation - other processes, if available:

Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark

alkylbenzenesulphonic acid		No data available			
hydrogen peroxide		No data available			

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT_{50}	Method	Evaluation
alkylbenzenesulphonic acid			94 % in 28 day(s)	OECD 301A	Readily biodegradable
(2-methoxymethylethoxy)propanol		Oxygen depletion	75 % in 28 day(s)	OECD 301F	Readily biodegradable
hydrogen peroxide	Activated sludge, aerobe	Specific analysis (primary degradation)	> 50 % in < 1 day(s)		Not applicable (inorganic substance)
methanesulphonic acid		COD removal	>90% in 28 day(s)	OECD 301A	Readily biodegradable
Alcohols, C9-11, ethoxylated	Activated sludge, aerobe		72% in 28 day(s)	ISO 14593	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

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

Degradation in relevant environmental compartments, if available:

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

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
alkylbenzenesulphonic acid	3.2	Method not given	Low potential for bioaccumulation	
(2-methoxymethylethoxy)propanol	1.01	Method not given	Low potential for bioaccumulation	
hydrogen peroxide	-1.57		No bioaccumulation expected	
methanesulphonic acid	-5.17		No bioaccumulation expected	
Alcohols, C9-11, ethoxylated	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
alkylbenzenesulphonic acid	2 - 500		Method not given	Low potential for bioaccumulation	
(2-methoxymethylethoxy)propanol	No data available				
hydrogen peroxide	1.4		QSAR	Low potential for bioaccumulation	
methanesulphonic acid	No data available				
Alcohols, C9-11, ethoxylated	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
alkylbenzenesulphonic acid	No data available				Low mobillity in soil
(2-methoxymethylethoxy)propanol	No data available				High potential for mobility in soil
hydrogen peroxide	2				Mobile in soil
methanesulphonic acid	0		Model calculation		Mobile in soil
Alcohols, C9-11, ethoxylated	No data available				

12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

12.6 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

12.7 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.
European Waste Catalogue:	20 01 14* - acids.
Empty packaging Recommendation:	Dispose of observing national or local regulations.
Suitable cleaning agents:	Water, if necessary with cleaning agent.

SECTION 14: Transport information

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

14.1 UN number: 1760

14.2 UN proper shipping name:

Corrosive liquid, n.o.s. (hydrogen peroxide , alkylsulphonic acid)

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 8

14.4 Packing group: III

14.5 Environmental hazards:

Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user: None known.

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

Other relevant information:

ADR

Classification code: C9

Tunnel restriction code: E

Hazard identification number: 80

IMO/IMDG

EmS: F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of ADR 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

National regulations :

- Regulation (EC) 1907/2006 - REACH (UK amended)
- Regulation (EC) 1272/2008 - CLP (UK amended)
- Regulation (EC) 648/2004 - Detergents regulation (UK amended)
- Medical Devices Regulations 2002
- Biocidal Products Regulations 2001 (SI 2001/880)
- Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII): Not applicable.

Ingredients according to Detergents Regulation

anionic surfactants	>= 30 %
non-ionic surfactants, phosphonates	< 5 %
disinfectants	

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents (UK amended). Data to support this assertion are held at the disposal of the competent authorities of the UK and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Comah - classification: Not classified

15.2 Chemical safety assessment
A chemical safety assessment has not been carried out on the mixture

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: MS1003145 **Version:** 01.6 **Revision:** 2022-07-19

Reason for revision:
Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 3, 8, 9, 11, 12, 15, 16

Classification procedure
The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

Full text of the H and EUH phrases mentioned in section 3:
- H271 - May cause fire or explosion; strong oxidiser.
- H290 - May be corrosive to metals.
- H302 - Harmful if swallowed.
- H312 - Harmful in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H318 - Causes serious eye damage.
- H332 - Harmful if inhaled.
- H335 - May cause respiratory irritation.
- H412 - Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:
- AISE - The international Association for Soaps, Detergents and Maintenance Products
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- ERC - Environmental release categories
- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- 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
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative

End of Safety Data Sheet