

Oxivir Excel®

Revision: 2017-09-09

Version: 01.2

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

1.1 Product identifier

Trade name: Oxivir Excel®

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

Identified uses:

For professional use only.

AISE-P314 - Surface disinfectant. Manual process

AISE-P315 - Surface disinfectant. Spray and rinse manual process

AISE-P1103 - Medical devices. Manual process

AISE-P1104 - Medical devices. Spray process

Cleaning and disinfection

Uses advised against: Uses other than those identified are not recommended

1.3 Details of the supplier of the safety data sheet

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

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)

Aquatic Chronic 3 (H412)

Met. Corr. 1 (H290)

2.2 Label elements



Signal word: Danger.

Contains alkylbenzenesulphonic acid (Dodecylbenzene Sulfonic Acid).

Hazard statements:

H314 - Causes severe skin burns and eye damage.

H412 - Harmful to aquatic life with long lasting effects.

H290 - May be corrosive to metals.

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

The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII

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	01-2111-9490234-40	Skin Corr. 1C (H314) Acute Tox. 4 (H302) 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	01-2119485845-22	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) Met. Corr. 1 (H290)		1-3
Alcohol ethoxylates	Polymer*	68439-46-3	No data available	Eye Irrit. 2 (H319)		1-3

* Polymer.

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

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[4] Exempted: polymer. See Article 2(9) 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 breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. Provide fresh air. 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 re-use. Immediately call a POISON CENTRE, doctor or physician.

Eye contact:

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

Ingestion:

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

Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

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, gloves and eye/face protection.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Measures to prevent fire and explosions:**

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 advised 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 skin and eyes. Do not breathe vapours. Use only with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Keep only in original container. Store in a closed container. 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/m ³	150 ppm 924 mg/m ³
hydrogen peroxide	1 ppm 1.4 mg/m ³	2 ppm 2.8 mg/m ³

Biological limit values, if available:

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

DNEL/DMEL and PNEC values**Human exposure**

DNEL 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	-	-	-	0.85
(2-methoxymethylethoxy)propanol	-	-	-	1.67
hydrogen peroxide	-	-	-	-
methanesulphonic acid	-	-	-	8.33
Alcohol ethoxylates	-	-	-	-

DNEL 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	-	-	-	170
(2-methoxymethylethoxy)propanol	No data available	-	No data available	65
hydrogen peroxide	-	-	-	-
methanesulphonic acid	No data available	-	No data available	19.44
Alcohol ethoxylates	-	-	-	-

DNEL 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	-	-	-	85

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(2-methoxymethylethoxy)propanol	No data available	-	No data available	15
hydrogen peroxide	-	-	-	-
methanesulphonic acid	No data available	-	No data available	8.33
Alcohol ethoxylates	-	-	-	-

DNEL 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	-	-	12	12
(2-methoxymethylethoxy)propanol	-	-	-	310
hydrogen peroxide	3	-	1.4	-
methanesulphonic acid	-	-	2.89	6.76
Alcohol ethoxylates	-	-	-	-

DNEL 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	-	-	3	3
(2-methoxymethylethoxy)propanol	-	-	-	37.2
hydrogen peroxide	1.93	-	0.21	-
methanesulphonic acid	-	1.44	1.73	1.44
Alcohol ethoxylates	-	-	-	-

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	0.278	0.0287	0.0167	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
Alcohol ethoxylates	No data available	No data available	No data available	No data available

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m ³)
alkylbenzenesulphonic acid	0.287	0.287	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
Alcohol ethoxylates	No data available	No data available	No data available	No data available

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

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

Appropriate engineering controls:

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

Appropriate organisational controls:

Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment

Eye / face protection:

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

Hand protection:

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

Body protection:

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

Respiratory protection:

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

Environmental exposure controls:

Should not reach sewage water or drainage ditch undiluted or unneutralised.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (%): 5

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

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.
Hand protection: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.
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

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	
pH: < 2 (neat)	
Melting point/freezing point (°C): Not determined	Not relevant to classification of this product
Initial boiling point and boiling range (°C): Not determined	

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	
Alcohol ethoxylates	No data available		

	Method / remark
Flash point (°C): Not applicable.	
Sustained combustion: Not applicable. (UN Manual of Tests and Criteria, section 32, L.2)	
Evaporation rate: Not determined	
Flammability (solid, gas): Not determined	
Upper/lower flammability limit (%): Not determined	

Substance data, flammability or explosive limits, if available:

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

	Method / remark
Vapour pressure: Not determined	

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
Alcohol ethoxylates	No data available		

	Method / remark
Vapour density: Not determined	
Relative density: ≈ 1.065 (20 °C)	
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		
Alcohol ethoxylates	No data available		

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

Method / remark

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: Corrosive

Not relevant to classification of this product
 UN Manual of Tests and Criteria, section 37

Substance data, dissociation constant, if available:

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

Keep away from products containing chlorine-based bleaching agents or sulphites. Reacts with alkali and metals.

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): 3200
 ATE - Inhalatory, vapours (mg/l): >50

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)
alkylbenzenesulphonic acid	LD ₅₀	> 1470	Rat	OECD 401 (EU B.1)	
(2-methoxymethylethoxy)propanol	LD ₅₀	> 4000	Rat	Method not given	
hydrogen peroxide	LD ₅₀	801-872	Rat		
methanesulphonic acid	LD ₅₀	649	Rat	OECD 401 (EU B.1)	
Alcohol ethoxylates		No data available			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
alkylbenzenesulphonic acid	LD ₅₀	> 2000	Rat	OECD 402 (EU B.3)	
(2-methoxymethylethoxy)propanol	LD ₅₀	9510	Rabbit	Method not given	
hydrogen peroxide	LD ₅₀	> 2000	Rabbit	Substance was tested as 35 % aqueous solution	

methanesulphonic acid	LD ₅₀	> 1000	Rabbit	OECD 402 (EU B.3)	
Alcohol ethoxylates		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkylbenzenesulphonic acid		No data available			
(2-methoxymethylethoxy)propanol		No data available			
hydrogen peroxide	LC ₀	No mortality observed	Rat	Method not given	4
methanesulphonic acid	LC ₀	> 0.0188 (vapour) No mortality observed	Mouse	Method not given	1
Alcohol ethoxylates		No data available			

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)
Alcohol ethoxylates	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)	
Alcohol ethoxylates	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			
Alcohol ethoxylates	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	
Alcohol ethoxylates	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			
Alcohol ethoxylates	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)

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(2-methoxymethylethoxy)propanol	No evidence for mutagenicity, negative test results	Method not given	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
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)
Alcohol ethoxylates	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
Alcohol ethoxylates	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
Alcohol ethoxylates			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	Method not given	90	
methanesulphonic acid		No data available				
Alcohol ethoxylates		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				
Alcohol ethoxylates		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	No data available	Mouse	Method not given	28	
methanesulphonic acid	NOAEL	0.026	Rat	Method not given	30	
Alcohol ethoxylates		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
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				
Alcohol ethoxylates			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
Alcohol ethoxylates	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
Alcohol ethoxylates	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)
alkylbenzenesulphonic acid	LC ₅₀	1 - 10	<i>Cyprinus carpio</i>	OECD 203 (EU C.1)	96
(2-methoxymethylethoxy)propanol	LC ₅₀	> 1000	<i>Poecilia reticulata</i>	Method not given	96
hydrogen peroxide	LC ₅₀	16.4	<i>Pimephales promelas</i>	Method not given	96
methanesulphonic acid	LC ₅₀	73	<i>Oncorhynchus mykiss</i>	OECD 203 (EU C.1)	96
Alcohol ethoxylates		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkylbenzenesulphonic acid	EC ₅₀	1 - 10	<i>Daphnia magna</i> Straus	OECD 202 (EU C.2)	48
(2-methoxymethylethoxy)propanol	EC ₅₀	1919	<i>Daphnia magna</i> Straus	Method not given	48
hydrogen peroxide	EC ₅₀	2.4	<i>Daphnia pulex</i>	Method not given	48
methanesulphonic acid	EC ₅₀	10 - 100	<i>Daphnia magna</i> Straus	OECD 202, static	48
Alcohol ethoxylates		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkylbenzenesulphonic acid	EC ₅₀	10 - 100	<i>Desmodesmus subspicatus</i>	OECD 201 (EU C.3)	72
(2-methoxymethylethoxy)propanol	EC ₅₀	> 969	<i>Selenastrum capricornutum</i>	Method not given	72
hydrogen peroxide	EC ₅₀	2.5	<i>Chlorella vulgaris</i>	OECD 201 (EU C.3)	72
methanesulphonic acid	EC ₅₀	12 - 24	<i>Pseudokirchner</i>	OECD 201 (EU C.3)	72

			<i>iella subcapitata</i>		
Alcohol ethoxylates		No data available			

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		No data available			-
methanesulphonic acid		No data available			-
Alcohol ethoxylates		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	<i>Pseudomonas putida</i>	Method not given	
hydrogen peroxide	EC ₅₀	466	<i>Activated sludge</i>	Method not given	
methanesulphonic acid	EC ₂₀	> 1000	<i>Activated sludge</i>	DIN EN ISO 8192-OECD 209-88/302/EEC	0.5 hour(s)
Alcohol ethoxylates		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	<i>Lepomis macrochirus</i>	Read across	28 day(s)	
(2-methoxymethylethoxy)propanol		No data available				
hydrogen peroxide	NOEC	4.3	<i>Pimephales promelas</i>	Method not given	96 hour(s)	
methanesulphonic acid		No data available				
Alcohol ethoxylates		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	<i>Not specified</i>	Read across	32 day(s)	
(2-methoxymethylethoxy)propanol	NOEC	> 0.5	<i>Daphnia magna</i>	Method not given	22 day(s)	
hydrogen peroxide	NOEC	1	<i>Daphnia pulex</i>	Method not given	48 hour(s)	
methanesulphonic acid		No data available				
Alcohol ethoxylates		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
alkylbenzenesulphonic acid		No data available			-	
(2-methoxymethylethoxy)propanol		No data available			-	
hydrogen peroxide		No data available			-	
methanesulphonic acid		No data available			-	
Alcohol ethoxylates		No data available				

Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw)	Species	Method	Exposure time (days)	Effects observed
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		soil)				
alkylbenzenesulphonic acid	LD ₅₀	> 1000	<i>Eisenia fetida</i>	OECD 207	14	
(2-methoxymethylethoxy)propanol		No data available			-	
hydrogen peroxide		No data available			-	
methanesulphonic acid		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	
(2-methoxymethylethoxy)propanol		No data available			-	
hydrogen peroxide		No data available			-	
methanesulphonic acid		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
alkylbenzenesulphonic acid		No data available			-	
(2-methoxymethylethoxy)propanol		No data available			-	
hydrogen peroxide		No data available			-	
methanesulphonic 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
alkylbenzenesulphonic acid		No data available			-	
(2-methoxymethylethoxy)propanol		No data available			-	
hydrogen peroxide		No data available			-	
methanesulphonic 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
alkylbenzenesulphonic acid		No data available			-	
(2-methoxymethylethoxy)propanol		No data available			-	
hydrogen peroxide		No data available			-	
methanesulphonic 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
(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:

Abiotic degradation - other processes, if 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)

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methanesulphonic acid		COD removal	>70 % in 28 day(s)	OECD 301A	Readily biodegradable
Alcohol ethoxylates				ISO 14593	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
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	
Alcohol ethoxylates	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	No data available				
methanesulphonic acid	No data available				
Alcohol ethoxylates	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 mobility 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
Alcohol ethoxylates	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 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.
20 01 14* - acids.

European Waste Catalogue:

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):

Class: 8

Label(s): 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**EU regulations:**

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP
- Directive 93/42/EEC on medical devices
- Regulation (EU) No 528/2012 on biocidal products
- Regulation (EC) No. 648/2004 - Detergents regulation

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

Ingredients according to EC Detergents Regulation 648/2004

anionic surfactants	15 - 30 %
disinfectants	5 - 15 %
non-ionic surfactants, phosphonates	< 5 %

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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:** 01.2**Revision:** 2017-09-09**Reason for revision:**

This data sheet contains changes from the previous version in section(s): 2, 3, 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.
- H314 - Causes severe skin burns and eye damage.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- 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
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate

End of Safety Data Sheet