

**Oxivir Plus J-flex**

Revision: 2024-08-06

Version: 01.0

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

**1.1 Product identifier**

**Trade name:** Oxivir Plus J-flex

UFI: YGDH-T1FQ-000A-QEE1

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

<b>Product use:</b>	Hard surface cleaner. Surface disinfectant. for general surface disinfection for cleaning of medical devices for disinfection of medical devices For professional use only.
<b>Uses advised against:</b>	Uses other than those identified are not recommended.

**SWED - Sector-specific worker exposure description :**

AISE\_SWED\_PW\_1\_1  
AISE\_SWED\_PW\_8a\_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, De Corridor 4, 3621ZB Breukelen [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@solenis.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 corrosion, Category 1C (H314)  
Serious eye damage, Category 1 (H318)

**2.2 Label elements**



**Signal word:** Danger.

Contains alkylbenzenesulphonic acid (Dodecylbenzene Sulfonic Acid), Hydrogen peroxide (Hydrogen Peroxide), salicylic acid (Salicylic Acid)

**Hazard statements:**

H314 - Causes severe skin burns and eye damage.

**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.

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**2.3 Other hazards**

No other hazards known.

Reportable explosives precursor - Control of Poisons and Explosives Precursors Regulations 2015

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
1-propoxypropan-2-ol	216-372-4	1569-01-3	01-211947444 3-37	Flammable liquids, Category 3 (H226) Eye irritation, Category 2 (H319)		10-20
alkylbenzenesulphonic acid	287-494-3	85536-14-7	01-211949023 4-40	Skin corrosion, Category 1C (H314) Acute toxicity - Oral, Category 4 (H302) Serious eye damage, Category 1 (H318) Chronic aquatic toxicity, Category 3 (H412)		3-10
Hydrogen peroxide	231-765-0	7722-84-1	[6]	Oxidising liquids, Category 1 (H271) Skin corrosion, Category 1A (H314) Acute toxicity - Oral, Category 4 (H302) Acute toxicity - Inhalation, Category 4 (H332) Specific target organ toxicity - Single exposure, Category 3 (H335) Chronic aquatic toxicity, Category 3 (H412)		3-10
salicylic acid	200-712-3	69-72-7	[6]	Reproductive toxicity, Category 2 (H361) Acute toxicity - Oral, Category 4 (H302) Serious eye damage, Category 1 (H318)		1-3

**Specific concentration limits**

Hydrogen peroxide:

- Serious eye damage, Category 1 (H318) >= 8% > Eye irritation, Category 2 (H319) >= 5%
- Skin corrosion, Category 1A (H314) >= 70% > Skin corrosion, Category 1A (H314) >= 60% > Skin corrosion, Category 1B (H314) >= 50% > Skin irritation, Category 2 (H315) >= 35%
- Specific target organ toxicity - Single exposure, Category 3 (H335) >= 35%

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

ATE, if available, are listed in section 11.

[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**

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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

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.

## 6.3 Methods and material for containment and cleaning up

Dike to collect large liquid spills. Use neutralising agent. Absorb with liquid-binding material (sand, diatomite, universal binders). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

## 6.4 Reference to other sections

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

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

### Measures to prevent fire and explosions:

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 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. 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)
Hydrogen peroxide	1 ppm 1.4 mg/m <sup>3</sup>	2 ppm 2.8 mg/m <sup>3</sup>

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
1-propoxypropan-2-ol	-	-	-	11
alkylbenzenesulphonic acid	-	-	-	0.425
Hydrogen peroxide	-	-	-	-
salicylic acid	-	4	-	1

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## 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)
1-propoxypropan-2-ol	No data available	-	No data available	82.5
alkylbenzenesulphonic acid	-	-	-	85
Hydrogen peroxide	-	-	-	-
salicylic acid	No data available	-	No data available	2

## 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)
1-propoxypropan-2-ol	No data available	-	No data available	36
alkylbenzenesulphonic acid	-	-	-	42.5
Hydrogen peroxide	-	-	-	-
salicylic acid	No data available	-	No data available	1

DNEL/DMEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
1-propoxypropan-2-ol	-	-	-	263
alkylbenzenesulphonic acid	-	-	-	6
Hydrogen peroxide	3	-	1.4	-
salicylic acid	-	-	-	16

DNEL/DMEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
1-propoxypropan-2-ol	-	-	-	38
alkylbenzenesulphonic acid	-	-	-	1.5
Hydrogen peroxide	1.93	-	0.21	-
salicylic acid	-	-	0.2	4

## 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)
1-propoxypropan-2-ol	0.1	0.01	1	4
alkylbenzenesulphonic acid	0.268	0.027	0.017	3.43
Hydrogen peroxide	0.0126	0.0126	0.0138	4.66
salicylic acid	0.2	0.02	1	162

## Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m <sup>3</sup> )
1-propoxypropan-2-ol	0.386	0.039	0.018	1
alkylbenzenesulphonic acid	8.1	6.8	35	-
Hydrogen peroxide	0.047	0.047	0.0023	-
salicylic acid	1.42	0.142	1.66	-

## 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_1_1	PW	PROC 1	60	ERC8a

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## Personal protective equipment

## Eye / face protection:

Safety glasses or goggles (EN 16321 / 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:

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:

No special requirements under normal use conditions.

## 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): 3.5

## Appropriate engineering controls:

Provide a good standard of general ventilation. Ensure that foam equipment does not generate respirable particles.

## 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
Foam spraying 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

Physical state: Liquid

Colour: Clear , Light , Yellow

Odour: Product specific

Odour threshold: Not applicable

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

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

## Method / remark

Not relevant to classification of this product

See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
1-propoxypropan-2-ol	149	Non-experimental data	1013
alkylbenzenesulphonic acid	190	Method not given	
Hydrogen peroxide	150.2	Method not given	
salicylic acid	256	Method not given	1013

## Method / remark

Flammability (solid, gas): Not applicable to liquids

Flammability (liquid): Not flammable.

Flash point (°C):  $> 60$  °C

Sustained combustion: Not applicable.

( UN Manual of Tests and Criteria, section 32, L.2 )

Lower and upper explosion limit/flammability limit (%): Not determined

Weight of evidence

See substance data

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Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
1-propoxypropan-2-ol	1.3	10.6
salicylic acid	1.1	No data available

## Method / remark

**Autoignition temperature:** Not determined**Decomposition temperature:** Not applicable.**pH:** < 2 (neat)**Dilution pH:** < 2 (3.5 %)**Kinematic viscosity:** Not determined**Solubility in / Miscibility with water:** Fully miscible

ISO 4316

ISO 4316

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
1-propoxypropan-2-ol	Soluble	Non-experimental data	30
alkylbenzenesulphonic acid	> 10	Method not given	20
Hydrogen peroxide	1000	Method not given	20
salicylic acid	2	Method not given	20

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)
1-propoxypropan-2-ol	380	Non-experimental data	25
alkylbenzenesulphonic acid	0.15		20
Hydrogen peroxide	214	Method not given	20
salicylic acid	0.02	Method not given	25

## Method / remark

**Relative density:** ≈ 1.03 (20 °C)**Relative vapour density:** No data available.**Particle characteristics:** No data available.

OECD 109 (EU A.3)

Not relevant to classification of this product

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:** Not corrosive

Weight of evidence

## 9.2.2 Other safety characteristics

No other relevant information 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

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 hazard classes as defined in Regulation (EC) No 1272/2008

Mixture data: .

## Relevant calculated ATE(s):

ATE - Oral (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 Oral (mg/kg)
1-propoxypropan-2-ol	LD <sub>50</sub>	> 2000	Rat	Method not given		Not established
alkylbenzenesulphonic acid	LD <sub>50</sub>	1470	Rat	OECD 401 (EU B.1)		1470
Hydrogen peroxide	LD <sub>50</sub>	> 300-2000	Rat	Weight of evidence		18000
salicylic acid	LD <sub>50</sub>	891	Rat	Method not given		891

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Dermal (mg/kg)
1-propoxypropan-2-ol	LD <sub>50</sub>	> 2000	Rabbit	Method not given		Not established
alkylbenzenesulphonic acid	LD <sub>50</sub>	> 2000	Rat	OECD 402 (EU B.3)		Not established
Hydrogen peroxide	LD <sub>50</sub>	> 2000	Rabbit	Substance was tested as 35 % aqueous solution		Not established
salicylic acid	LD <sub>50</sub>	> 2000	Rat	Method not given		Not established

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
1-propoxypropan-2-ol	LC <sub>50</sub>	8.34 (vapour) No mortality observed	Rat	Method not given	4
alkylbenzenesulphonic acid		No data available			
Hydrogen peroxide	LC <sub>0</sub>	No mortality observed (vapour)	Rat	Method not given	4
salicylic acid		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)
1-propoxypropan-2-ol	Not established	Not established	Not established	Not established
alkylbenzenesulphonic acid	Not established	Not established	Not established	Not established
Hydrogen peroxide	Not established	Not established	11	Not established
salicylic acid	Not established	Not established	Not established	Not established

## Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
1-propoxypropan-2-ol	Not irritant	Rabbit	Method not given	
alkylbenzenesulphonic acid	Corrosive	Rabbit	OECD 404 (EU B.4)	
Hydrogen peroxide	Corrosive	Rabbit	Method not given	
salicylic acid	Not irritant	Rabbit	Method not given	24 hour(s)

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
1-propoxypropan-2-ol	Irritant	Rabbit	Method not given	
alkylbenzenesulphonic acid	Severe damage	Rabbit	OECD 405 (EU B.5)	
Hydrogen peroxide	Corrosive	Rabbit	Method not given	
salicylic acid	Severe damage	Rabbit	Method not given	

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## Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
1-propoxypropan-2-ol	No data available			
alkylbenzenesulphonic acid	No data available			
Hydrogen peroxide	Irritating to respiratory tract		Method not given	
salicylic acid	No data available		Method not given	

## 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)	
alkylbenzenesulphonic acid	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPM	
Hydrogen peroxide	Not sensitising	Guinea pig	Method not given	
salicylic acid	Not sensitising	Mouse	Method not given	

## Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
1-propoxypropan-2-ol	No data available			
alkylbenzenesulphonic acid	No data available			
Hydrogen peroxide	No data available			
salicylic acid	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	
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)
Hydrogen peroxide	No evidence for mutagenicity	OECD 471 (EU B.12/13)	No evidence of genotoxicity, negative test results	Method not given
salicylic acid	No evidence for mutagenicity, negative test results	Method not given	No evidence for mutagenicity, negative test results	Method not given

## Carcinogenicity

Ingredient(s)	Effect
1-propoxypropan-2-ol	No data available
alkylbenzenesulphonic acid	No evidence for carcinogenicity, weight-of-evidence
Hydrogen peroxide	No evidence for carcinogenicity, negative test results
salicylic acid	No evidence for carcinogenicity, negative test results

## 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
alkylbenzenesulphonic acid	NOAEL	Teratogenic effects	300	Rat	Read across	20 day(s)	
Hydrogen peroxide			No data available				No evidence for reproductive toxicity
salicylic acid	NOAEL	Developmental toxicity	50	Rat	Non guideline test		Indications of possible developmental toxicity

## 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				
alkylbenzenesulphonic acid		No data available				
Hydrogen peroxide	NOAEL	100	Mouse	OECD 408 (EU B.26)	90	
salicylic acid	NOAEL	45.4	Rat	Method not given	other	

## Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
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		(mg/kg bw/d)			time (days)	affected
1-propoxypropan-2-ol		No data available				
alkylbenzenesulphonic acid		No data available				
Hydrogen peroxide		No data available				
salicylic acid		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				
alkylbenzenesulphonic acid		No data available				
Hydrogen peroxide	NOAEL	7	Mouse	OECD 413 (EU B.29)	28	
salicylic acid		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
1-propoxypropan-2-ol			No data available					
alkylbenzenesulphonic acid	Oral	NOAEL	85	Rat	Read across	9 month(s)		
Hydrogen peroxide			No data available					
salicylic acid			No data available					

## STOT-single exposure

Ingredient(s)	Affected organ(s)
1-propoxypropan-2-ol	No data available
alkylbenzenesulphonic acid	No data available
Hydrogen peroxide	No data available
salicylic acid	No data available

## STOT-repeated exposure

Ingredient(s)	Affected organ(s)
1-propoxypropan-2-ol	No data available
alkylbenzenesulphonic acid	No data available
Hydrogen peroxide	No data available
salicylic acid	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	Species	Method	Exposure
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		(mg/l)			time (h)
1-propoxypropan-2-ol	LC <sub>50</sub>	> 100	<i>Oncorhynchus mykiss</i>	OECD 203, static	96
alkylbenzenesulphonic acid	LC <sub>50</sub>	1 - 10	<i>Cyprinus carpio</i>	OECD 203 (EU C.1)	96
Hydrogen peroxide	LC <sub>50</sub>	16.4	<i>Pimephales promelas</i>	EPA-OPPTS 850.1075	96
salicylic acid	LC <sub>50</sub>	90	<i>Leuciscus idus</i>	Method not given	

## Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
1-propoxypropan-2-ol	EC <sub>50</sub>	> 100	<i>Daphnia magna</i> Straus	OECD 202, static	48
alkylbenzenesulphonic acid	EC <sub>50</sub>	1 - 10	<i>Daphnia magna</i> Straus	OECD 202 (EU C.2)	48
Hydrogen peroxide	EC <sub>50</sub>	2.4	<i>Daphnia pulex</i>	Method not given	48
salicylic acid	EC <sub>50</sub>	105	<i>Daphnia magna</i> Straus	Method not given	24

## Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
1-propoxypropan-2-ol	E <sub>r</sub> C <sub>50</sub>	1466	<i>Pseudokirchneriella subcapitata</i>	OECD 201, static	96
alkylbenzenesulphonic acid	EC <sub>50</sub>	10 - 100	<i>Desmodesmus subspicatus</i>	OECD 201 (EU C.3)	72
Hydrogen peroxide	EC <sub>50</sub>	1.38	<i>Skeletonema costatum</i> (marine)	OECD 201 (EU C.3)	72
salicylic acid	EC <sub>50</sub>	> 100	<i>Desmodesmus subspicatus</i>	Method not given	72

## Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
1-propoxypropan-2-ol		No data available			
alkylbenzenesulphonic acid		No data available			
Hydrogen peroxide	ErC <sub>50</sub>	1.38	<i>Skeletonema costatum</i>	Method not given	72
salicylic acid		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 <sub>50</sub>	3800	<i>Bacteria</i>	Method not given	16 hour(s)
alkylbenzenesulphonic acid		No data available			
Hydrogen peroxide	EC <sub>50</sub>	466	<i>Activated sludge</i>	Method not given	
salicylic acid		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				
alkylbenzenesulphonic acid	NOEC	0.1 - 1	<i>Lepomis macrochirus</i>	Read across	28 day(s)	
Hydrogen peroxide	NOEC	4.3	<i>Pimephales promelas</i>	Method not given	96 hour(s)	
salicylic acid		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				
alkylbenzenesulphonic acid	NOEC	1 - 10	<i>Not specified</i>	Read across	32 day(s)	
Hydrogen peroxide	NOEC	0.63	<i>Daphnia</i>	Method not	21 day(s)	

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			<i>magna</i>	given		
salicylic acid	NOEC	10	<i>Daphnia magna</i>	Method not given	21 day(s)	

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
1-propoxypropan-2-ol		No data available				
alkylbenzenesulphonic acid		No data available				
Hydrogen peroxide		No data available				
salicylic 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
alkylbenzenesulphonic acid	LD <sub>50</sub>	> 1000	<i>Eisenia fetida</i>	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 <sub>50</sub>	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			
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:

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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 <sub>50</sub>	Method	Evaluation
1-propoxypropan-2-ol	Activated sludge, aerobe	DOC reduction	91.5 % in 28 day(s)	OECD 301A	Readily biodegradable
alkylbenzenesulphonic acid			94 % in 28 day(s)	OECD 301A	Readily biodegradable
Hydrogen peroxide	Activated sludge, aerobe	Specific analysis (primary degradation)	> 50 % in < 1 day(s)		Not applicable (inorganic substance)
salicylic acid			100% in 14 day(s)	Method not given	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT <sub>50</sub>	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 <sub>50</sub>	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
1-propoxypropan-2-ol	0.621	Method not given	Low potential for bioaccumulation	at 20 °C
alkylbenzenesulphonic acid	3.2	Method not given	Low potential for bioaccumulation	
Hydrogen peroxide	-1.57		No bioaccumulation expected	
salicylic acid	2.2	Method not given	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
1-propoxypropan-2-ol	< 100				
alkylbenzenesulphonic acid	2 - 500		Method not given	Low potential for bioaccumulation	
Hydrogen peroxide	1.4		QSAR	Low potential for bioaccumulation	
salicylic acid	No data available				

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K <sub>oc</sub>	Desorption coefficient Log K <sub>oc</sub> (des)	Method	Soil/sediment type	Evaluation
1-propoxypropan-2-ol	1-1.9		Method not given		High potential for mobility in soil
alkylbenzenesulphonic acid	No data available				Low mobility in soil
Hydrogen peroxide	2				Mobile in soil
salicylic acid	No data available				Mobile in soil

**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.

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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 or ID number: 1760

## 14.2 UN proper shipping name:

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

## 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 Maritime transport in bulk according to IMO instruments: 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
- Control of Poisons and Explosives Precursors Regulations 2015

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

## Ingredients according to Detergents Regulation

anionic surfactants	15 - 30 %
non-ionic surfactants	5 - 15 %
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

## Oxivir Plus J-flex

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:** MS1005336

**Version:** 01.0

**Revision:** 2024-08-06

**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.

**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
- H226 - Flammable liquid and vapour.
- H271 - May cause fire or explosion; strong oxidiser.
- 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.
- H361 - Suspected of damaging fertility or the unborn child.
- H412 - Harmful to aquatic life with long lasting effects.

**End of Safety Data Sheet**