

## Oxivir Plus

Revision: 2014-07-14

Version: 01.0

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

#### 1.1 Product identifier

**Trade name:** Oxivir Plus

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

##### Identified uses:

For professional use only.

AISE-P301 - General purpose cleaner. Manual process

AISE-P302 - General purpose cleaner. Spray and wipe manual process

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

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

#### 1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, De Boelelaan 32, 1083HJ Amsterdam, The Netherlands

#### Contact details

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: MSDSinfoUK@sealedair.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

The product has been classified and labelled in accordance with Regulation (EC) No 1272/2008.

Skin Corr. 1C (H314)

#### Classification in accordance with Directive 1999/45/EC and corresponding national legislation

##### Risk phrases:

R22 - Harmful if swallowed.

R34 - Causes burns.

#### 2.2 Label elements



**Signal word:** Danger

Contains alkylbenzenesulphonic acid (Dodecylbenzene Sulfonic Acid).

#### Hazard statements:

H314 - Causes severe skin burns and eye damage

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**Precautionary statements:**

P260 - Do not breathe vapours

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 (EC) 1272/2008	Classification	Notes	Weight percent
1-propoxypropan-2-ol	216-372-4	1569-01-3	01-2119474443-37	Flam. Liq. 3 (H226) Eye Irrit. 2 (H319)	R10		10-20
alkylbenzenesulphonic acid	287-494-3	85536-14-7	01-2111-9490234-40	Skin Corr. 1C (H314) Acute Tox. 4 (H302)	Xn;R22 C;R34		3-10
hydrogen peroxide	231-765-0	7722-84-1	01-2119485845-22	STOT SE 3 (H335) Aquatic Chronic 3 (H412) Acute Tox. 4 (H302) Ox. Liq. 1 (H271) Skin Corr. 1A (H314) Acute Tox. 4 (H332)	R5 O;R8 Xn;R20/22 C;R35		3-10
salicylic acid	200-712-3	69-72-7	01-2119486984-17	Acute Tox. 4 (H302) Eye Dam. 1 (H318)	Xn;R22 Xi;R41		1-3

\* Polymer.

For the full text of the R, H and EUH phrases mentioned in this Section, see Section 16.

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.

**SECTION 4: First aid measures****4.1 Description of first aid measures****Inhalation**

Get medical attention or advice if you feel unwell.

**Skin contact:**

Wash skin with plenty of lukewarm, gently flowing water 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:**

Immediately rinse eyes cautiously with lukewarm water for several 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. 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. Dilute with plenty of water.

**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 Sealed Air. 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.

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 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	No data available	No data available	No data available	2.2
alkylbenzenesulphonic acid	No data available	No data available	No data available	0.85
hydrogen peroxide	No data available	No data available	No data available	No data available
salicylic acid	No data available	4	No data available	1

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)
1-propoxypropan-2-ol	No data available	No data available	No data available	9
alkylbenzenesulphonic acid	No data available	No data available	No data available	170
hydrogen peroxide	No data available	No data available	No data available	No data available
salicylic acid	No data available	No data available	No data available	2

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)

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1-propoxypropan-2-ol	No data available	No data available	No data available	2.2
alkylbenzenesulphonic acid	No data available	No data available	No data available	85
hydrogen peroxide	No data available	No data available	No data available	No data available
salicylic acid	No data available	No data available	No data available	1

DNEL 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	No data available	No data available	No data available	217
alkylbenzenesulphonic acid	No data available	No data available	12	12
hydrogen peroxide	3	No data available	1.4	No data available
salicylic acid	No data available	No data available	No data available	16

DNEL 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	No data available	No data available	No data available	26
alkylbenzenesulphonic acid	No data available	No data available	3	3
hydrogen peroxide	1.93	No data available	0.21	No data available
salicylic acid	No data available	No data available	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	0.278	0.0287	0.0167	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	0.0386	0.0185	1
alkylbenzenesulphonic acid	0.287	0.287	35	No data available
hydrogen peroxide	0.047	0.047	0.0023	No data available
salicylic acid	1.42	0.142	1.66	No data available

## 8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2.

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).

## 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.

**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.

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Recommended safety measures for handling the diluted product:

**Recommended maximum concentration (%):** 3.5

**Appropriate engineering controls:** Use only in well ventilated areas.  
**Appropriate organisational controls:** No special requirements under normal use conditions.

**Personal protective equipment**

**Eye / face protection:** No special requirements under normal use conditions.  
**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  
**Initial boiling point and boiling range (°C):** Not determined

Substance data, boiling point

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

#### Method / remark

**Flash point (°C):** Not applicable.  
**Sustained combustion:** Not determined  
**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)
salicylic acid	1.1	No data available

#### Method / remark

**Vapour pressure:** Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
1-propoxypropan-2-ol	380	Non-experimental data	25
alkylbenzenesulphonic acid	0.15	Method not given	20
hydrogen peroxide	214	Method not given	20
salicylic acid	0.02	Method not given	25

#### Method / remark

**Vapour density:** Not determined  
**Relative density:** 1.03 g/cm<sup>3</sup> (20 °C)  
**Solubility in / Miscibility with Water:** Fully miscible

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

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

## Method / remark

**Autoignition temperature:** Not determined  
**Decomposition temperature:** Not determined  
**Viscosity:** Not determined  
**Explosive properties:** Not explosive.  
**Oxidising properties:** Not oxidising

**9.2 Other information**

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

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**

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 - 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)
1-propoxypropan-2-ol	LD <sub>50</sub>	> 2000	Rat	Method not given	
alkylbenzenesulphonic acid	LD <sub>50</sub>	> 1470	Rat	OECD 401 (EU B.1)	
hydrogen peroxide	LD <sub>50</sub>	> 693.7	Rat	Method not given	
salicylic acid	LD <sub>50</sub>	891	Rat	Method not given	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
1-propoxypropan-2-ol	LD <sub>50</sub>	> 2000	Rabbit	Method not given	
alkylbenzenesulphonic acid	LD <sub>50</sub>	> 2000	Rat	OECD 402 (EU B.3)	
hydrogen peroxide	LD <sub>50</sub>	> 2000	Rabbit	Method not given	
salicylic acid	LD <sub>50</sub>	> 2000	Rat	Method not given	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
1-propoxypropan-2-ol	LC <sub>50</sub>	8.34	Rat	Method not given	4
alkylbenzenesulphonic acid		No data available			
hydrogen peroxide	LC <sub>0</sub>	> 170 (mist)	Rat	Method not given	4
salicylic acid		No data available			

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**Irritation and corrosivity**

## Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
1-propoxypropan-2-ol	No data available			
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	No data available			
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	

## 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	Method not given	
alkylbenzenesulphonic acid	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
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)**

## 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

## 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

## 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	Not known		No evidence for reproductive toxicity

**Repeated dose toxicity**

## Sub-acute or sub-chronic oral toxicity

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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	Method not given	90	
salicylic acid	NOAEL	45.4	Rat	Method not given	other	

## Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
1-propoxypropan-2-ol		No data available				
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	No data available	Mouse	Method not given	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. 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



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Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
1-propoxypropan-2-ol	LC <sub>50</sub>	> 100	<i>Oncorhynchus mykiss</i>	Method not given	96
alkylbenzenesulphonic acid	LC <sub>50</sub>	1 - 10	<i>Cyprinus carpio</i>	OECD 203	96
hydrogen peroxide	LC <sub>50</sub>	16.4	<i>Pimephales promelas</i>	Method not given	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 Straus</i>	Method not given	48
alkylbenzenesulphonic acid	EC <sub>50</sub>	1 - 10	<i>Daphnia magna Straus</i>	OECD 202	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 Straus</i>	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>	Method not given	96
alkylbenzenesulphonic acid	EC <sub>50</sub>	10 - 100	<i>Desmodesmus subspicatus</i>	OECD 201	72
hydrogen peroxide	EC <sub>50</sub>	2.5	<i>Chlorella vulgaris</i>	OECD 201	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		No data available			
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	1	<i>Daphnia pulex</i>	Method not given	48 hour(s)	
salicylic acid	NOEC	10	<i>Daphnia magna</i>	Method not given	21 day(s)	

## Oxivir Plus

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	

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	

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

**12.2 Persistence and degradability****Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
hydrogen peroxide	24 hour(s)	Method not given	OH radical	

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

**Biodegradation**

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
1-propoxypropan-2-ol		Oxygen depletion	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)	Method not given	Readily biodegradable
salicylic acid			100% in 14 day(s)	Method not given	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

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.

**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	
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	No data available				
salicylic acid	No data available				

## Oxivir Plus

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
1-propoxypropan-2-ol	1-1.9		Method not given		High potential for mobility in soil
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 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****ADR, RID, ADN, IMO/IMDG, ICAO/IATA****14.1 UN number:** 1760**14.2 UN proper shipping name:**

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

**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 73/78 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****Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII):** Not applicable.**Ingredients according to EC Detergents Regulation 648/2004**

**Oxivir Plus**

anionic surfactants, non-ionic surfactants, oxygen-based bleaching agents  
disinfectants

5 - 15%

**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*

**MSDS code:** MS1001519

**Version:** 01.0

**Revision:** 2014-07-14

**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 R, H and EUH phrases mentioned in section 3:**

- H226 - Flammable liquid and vapour
- 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
- R 5 - Heating may cause an explosion.
- R 8 - Contact with combustible material may cause fire.
- R20 - Harmful by inhalation.
- R22 - Harmful if swallowed.
- R34 - Causes burns.
- R35 - Causes severe burns.
- R37 - Irritating to respiratory system.
- R41 - Risk of serious damage to eyes.

**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**