



TASKI Sani 4 in 1 Plus

Revision: 2022-04-03

Version: 01.1

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

1.1 Product identifier

Trade name: TASKI Sani 4 in 1 Plus

UFI: R49H-21J7-2001-X3PH

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

Product use:	Restroom/bathroom cleaner. Descaling agent. Odor Control - Residual action (hard surface). Surface disinfectant. For professional use only.
Uses advised against:	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, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

Contact details

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

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Skin Corr. 1B (H314)
Eye Dam. 1 (H318)

2.2 Label elements



Signal word: Danger.

Contains methanesulphonic acid (Methanesulphonic Acid)

Hazard statements:

H314 - Causes severe skin burns and eye damage.

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.

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P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTRE, doctor or physician.

2.3 Other hazards

No other hazards known.

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

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
l-(+)-lactic acid	201-196-2	79-33-4	[6]	Skin Corr. 1C (H314) Eye Dam. 1 (H318)		10-20
alkyl ether carboxylic acid	[4]	53563-70-5	[4]	Skin Irrit. 2 (H315) Eye Dam. 1 (H318)		3-10
methanesulphonic acid	200-898-6	75-75-2	01-2119491166-34	Skin Corr. 1B (H314) Acute Tox. 4 (H302) Acute Tox. 4 (H312) STOT SE 3 (H335) Eye Dam. 1 (H318) Met. Corr. 1 (H290)		3-10
alkyl polyglucoside	414-420-0	161074-93-7	01-0000016147-72 01-2119987144-31	Eye Dam. 1 (H318)		3-10
sulphonic acids, C14-17-sec-alkane, sodium salts	307-055-2	97489-15-1	01-2119489924-20	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)		3-10

Specific concentration limits

sulphonic acids, C14-17-sec-alkane, sodium salts:

- Eye Dam. 1 (H318) >= 15% > Eye Irrit. 2 (H319) >= 10%

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

ATE, if available, are listed in section 11.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

[6] Exempted: biocidal active. See Article 15(2) of Regulation (EC) No 1907/2006.

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

SECTION 4: First aid measures**4.1 Description of first aid measures****General Information:**

If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

Inhalation:

Get medical attention or advice if you feel unwell.

Skin contact:

Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off immediately all contaminated clothing and wash it before reuse. Immediately call a POISON CENTRE, doctor or physician.

Eye contact:

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

Ingestion:

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

Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed**Inhalation:**

No known effects or symptoms in normal use.

Skin contact:

Causes severe burns.

Eye contact:

Causes severe or permanent damage.

Ingestion:

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

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures**5.1 Extinguishing media**

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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

Ensure adequate ventilation. Do not breathe dust or vapour. Wear suitable protective clothing. Wear eye/face protection. Wear suitable gloves.

6.2 Environmental precautions

Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire and explosions:

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless 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. Do not breathe vapours. 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:

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
l-(+)-lactic acid	-	35.4	-	-
alkyl ether carboxylic acid	-	-	-	-
methanesulphonic acid	-	-	-	8.33
alkyl polyglucoside	-	-	-	0.75
sulphonic acids, C14-17-sec-alkane, sodium salts	-	-	-	7.1

DNEL/DMEL dermal exposure - Worker

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Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
I-(+)-lactic acid	-	-	-	-
alkyl ether carboxylic acid	-	-	-	-
methanesulphonic acid	No data available	-	No data available	19.44
alkyl polyglucoside	No data available	-	No data available	1.5
sulphonic acids, C14-17-sec-alkane, sodium salts	2.8 mg/cm ² skin	-	2.8 mg/cm ² skin	5

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)
I-(+)-lactic acid	No data available	-	No data available	-
alkyl ether carboxylic acid	-	-	-	-
methanesulphonic acid	No data available	-	No data available	8.33
alkyl polyglucoside	No data available	-	No data available	0.75
sulphonic acids, C14-17-sec-alkane, sodium salts	2.8 mg/cm ² skin	-	2.8 mg/cm ² skin	3.57

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

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
I-(+)-lactic acid	-	-	-	-
alkyl ether carboxylic acid	-	-	-	-
methanesulphonic acid	-	-	2.89	6.76
alkyl polyglucoside	-	-	-	10.6
sulphonic acids, C14-17-sec-alkane, sodium salts	-	-	-	35

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

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
I-(+)-lactic acid	-	-	-	-
alkyl ether carboxylic acid	-	-	-	-
methanesulphonic acid	-	1.44	1.73	1.44
alkyl polyglucoside	-	-	-	2.6
sulphonic acids, C14-17-sec-alkane, sodium salts	-	-	-	12.4

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)
I-(+)-lactic acid	1.3	-	-	10
alkyl ether carboxylic acid	-	-	-	-
methanesulphonic acid	0.012	0.0012	0.12	100
alkyl polyglucoside	0.098	0.0098	0.98	-
sulphonic acids, C14-17-sec-alkane, sodium salts	0.04	0.004	0.06	600

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m ³)
I-(+)-lactic acid	-	-	-	-
alkyl ether carboxylic acid	-	-	-	-
methanesulphonic acid	0.0251	-	0.00183	0.12
alkyl polyglucoside	980	98	17.6	-
sulphonic acids, C14-17-sec-alkane, sodium salts	9.4	0.94	9.4	-

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	LCS	PROC	Duration (min)	ERC
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	description				
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

Personal protective equipment**Eye / face protection:**

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

Hand protection:

Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

Body protection:

No special requirements under normal use conditions. Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).

Respiratory protection:

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 (% 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	AISE_SWED_PW_11_1	PW	PROC 11	60	ERC8a
Spray application					
Manual application	AISE_SWED_PW_19_1	PW	PROC 19	480	ERC8a

Personal protective equipment**Eye / face protection:**

No special requirements under normal use conditions.

Hand protection:

No special requirements under normal use conditions.

Body protection:

No special requirements under normal use conditions.

Respiratory protection:

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

Environmental exposure controls:

No special requirements under normal use conditions.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

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

Method / remark

Physical state: Liquid

Colour: Clear , Medium , Red

Odour: Product specific

Odour threshold: Not applicable

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

Not relevant to classification of this product

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

See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
l-(+)-lactic acid	110-130	Method not given	1013
alkyl ether carboxylic acid	No data available		
methanesulphonic acid	167	Method not given	
alkyl polyglucoside	No data available		
sulphonic acids, C14-17-sec-alkane, sodium salts	> 100	Method not given	

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Flammability (solid, gas): Not applicable to liquids
Flammability (liquid): Not flammable.
Flash point (°C): > 100 °C
Sustained combustion: The product does not sustain combustion
 (UN Manual of Tests and Criteria, section 32, L.2)

Method / remark

closed cup
 Weight of evidence

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

Substance data, flammability or explosive limits, if 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)
l-(+)-lactic acid	Soluble		
alkyl ether carboxylic acid	Soluble		
methanesulphonic acid	Soluble		
alkyl polyglucoside	No data available		
sulphonic acids, C14-17-sec-alkane, sodium salts	500	Method not given	25

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)
l-(+)-lactic acid	8.13	Method not given	25
alkyl ether carboxylic acid	No data available		
methanesulphonic acid	0.0475	Method not given	20
alkyl polyglucoside	No data available		
sulphonic acids, C14-17-sec-alkane, sodium salts	3000	Method not given	25

Relative density: ≈ 1.09 (20 °C)
Relative vapour density: No data available.
Particle characteristics: No data available.

Method / remark

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. Vapours may form explosive mixtures with air.
Oxidising properties: Not oxidising.
Corrosion to metals: Not corrosive

Weight of evidence

9.2.2 Other safety characteristics

Acid reserve: ≈ -7.8 (g NaOH / 100g; pH=4)

SECTION 10: Stability and reactivity**10.1 Reactivity**

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

None known under normal storage and use conditions.

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Mixture data:.

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000

ATE - Dermal (mg/kg): >2000

Substance data, where relevant and available, are listed below:.

Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
l-(+)-lactic acid	LD ₅₀	3543	Rat	Method not given		Not established
alkyl ether carboxylic acid	LD ₅₀	> 2000	Rat	Method not given		Not established
methanesulphonic acid	LD ₅₀	649	Rat	OECD 401 (EU B.1)		12000
alkyl polyglucoside	LD ₅₀	> 2000 - 5000	Rat	OECD 401 (EU B.1)		Not established
sulphonic acids, C14-17-sec-alkane, sodium salts	LD ₅₀	> 500-2000	Rat	OECD 401 (EU B.1)		16000

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
l-(+)-lactic acid	LD ₅₀	> 2000	Rabbit	EPA OPP 81-2		Not established
alkyl ether carboxylic acid		No data available				Not established
methanesulphonic acid	LD ₅₀	> 1000	Rabbit	OECD 402 (EU B.3)		19000
alkyl polyglucoside	LD ₅₀	> 5000	Rat	OECD 402 (EU B.3)		Not established
sulphonic acids, C14-17-sec-alkane, sodium salts	LD ₅₀	> 2000	Mouse	Weight of evidence		Not established

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
l-(+)-lactic acid	LC ₅₀	(mist) > 7.94	Rat	OECD 403 (EU B.2)	4
alkyl ether carboxylic acid		No data available			
methanesulphonic acid	LC ₀	> 0.0188 (vapour) No mortality observed	Mouse	Method not given	1
alkyl polyglucoside		No data available			
sulphonic acids, C14-17-sec-alkane, sodium salts		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)
l-(+)-lactic acid	Not established	Not established	Not established	Not established
alkyl ether carboxylic acid	Not established	Not established	Not established	Not established
methanesulphonic acid	Not established	Not established	Not established	Not established
alkyl polyglucoside	Not established	Not established	Not established	Not established
sulphonic acids, C14-17-sec-alkane, sodium salts	Not established	Not established	Not established	Not established

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
l-(+)-lactic acid	Irritant		OECD 404 (EU B.4)	
alkyl ether carboxylic acid	Not irritant			
methanesulphonic acid	Corrosive	Mouse		1 hour(s)
alkyl polyglucoside	No data available			

sulphonic acids, C14-17-sec-alkane, sodium salts	Irritant	Rabbit	OECD 404 (EU B.4) Read across	
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Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
l-(+)-lactic acid	Severe damage		Method not given	
alkyl ether carboxylic acid	Severe damage			
methanesulphonic acid	Severe damage	Rabbit	OECD 405 (EU B.5)	
alkyl polyglucoside	Severe damage	Rabbit	OECD 405 (EU B.5)	
sulphonic acids, C14-17-sec-alkane, sodium salts	Severe damage		OECD 405 (EU B.5)	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
l-(+)-lactic acid	No data available			
alkyl ether carboxylic acid	No data available			
methanesulphonic acid	No data available			
alkyl polyglucoside	No data available			
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
l-(+)-lactic acid	Not sensitising	Guinea pig	Method not given	
alkyl ether carboxylic acid	No data available			
methanesulphonic acid	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
alkyl polyglucoside	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
sulphonic acids, C14-17-sec-alkane, sodium salts	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT Read across	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
l-(+)-lactic acid	No data available			
alkyl ether carboxylic acid	No data available			
methanesulphonic acid	No data available			
alkyl polyglucoside	No data available			
sulphonic acids, C14-17-sec-alkane, sodium salts	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)
l-(+)-lactic acid	No data available		No evidence for genotoxicity	
alkyl ether carboxylic acid	No evidence for mutagenicity, negative test results		No evidence for mutagenicity, negative test results	
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)
alkyl polyglucoside	No data available		No data available	
sulphonic acids, C14-17-sec-alkane, sodium salts	No evidence for mutagenicity, negative test results	Method not given	No evidence for mutagenicity, negative test results	Method not given

Carcinogenicity

Ingredient(s)	Effect
l-(+)-lactic acid	No data available
alkyl ether carboxylic acid	No evidence for carcinogenicity, negative test results
methanesulphonic acid	No data available
alkyl polyglucoside	No data available
sulphonic acids, C14-17-sec-alkane, sodium salts	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
l-(+)-lactic acid			No data available				No known significant effects or critical hazards
alkyl ether carboxylic acid			No data available				No evidence for reproductive toxicity
methanesulphonic acid	NOAEL	Impaired fertility Developmental toxicity	≥ 400	Rat	OECD 414 (EU B.31), oral OECD		No evidence for reproductive toxicity

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					421, oral	
alkyl polyglucoside			No data available			
sulphonic acids, C14-17-sec-alkane, sodium salts			No data available			No evidence for reproductive 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
l-(+)-lactic acid		No data available				
alkyl ether carboxylic acid		No data available				
methanesulphonic acid		No data available				
alkyl polyglucoside		No data available				
sulphonic acids, C14-17-sec-alkane, sodium salts	NOAEL	200	Rat	Method not given		

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
l-(+)-lactic acid		No data available				
alkyl ether carboxylic acid		No data available				
methanesulphonic acid		No data available				
alkyl polyglucoside		No data available				
sulphonic acids, C14-17-sec-alkane, sodium salts		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
l-(+)-lactic acid		No data available				
alkyl ether carboxylic acid		No data available				
methanesulphonic acid	NOAEL	0.026	Rat	Method not given	30	
alkyl polyglucoside		No data available				
sulphonic acids, C14-17-sec-alkane, sodium salts		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
l-(+)-lactic acid		NOAEL	No data available					
alkyl ether carboxylic acid			No data available					
methanesulphonic acid			No data available					
alkyl polyglucoside			No data available					
sulphonic acids, C14-17-sec-alkane, sodium salts	Oral	NOAEL	> 4000	Rat	Method not given			

STOT-single exposure

Ingredient(s)	Affected organ(s)
l-(+)-lactic acid	Not applicable
alkyl ether carboxylic acid	No data available
methanesulphonic acid	Respiratory tract
alkyl polyglucoside	No data available
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
l-(+)-lactic acid	Not applicable

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alkyl ether carboxylic acid	No data available
methanesulphonic acid	Respiratory tract
alkyl polyglucoside	No data available
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3.

Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

11.2 Information on other hazards**11.2.1 Endocrine disrupting properties**

Endocrine disrupting properties - Human data, if available:

11.2.2 Other information

No other relevant information available.

SECTION 12: Ecological information**12.1 Toxicity**

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
l-(+)-lactic acid	LC ₅₀	130	<i>Oncorhynchus mykiss</i>	Method not given	96
alkyl ether carboxylic acid	LC ₅₀	> 100	Fish	Method not given OECD 203 (EU C.1)	96
methanesulphonic acid	LC ₅₀	73	<i>Oncorhynchus mykiss</i>	OECD 203 (EU C.1)	96
alkyl polyglucoside	LC ₅₀	> 310	<i>Oncorhynchus mykiss</i>	Method not given	96
sulphonic acids, C14-17-sec-alkane, sodium salts	LC ₅₀	1 - 10	<i>Brachydanio rerio</i>	OECD 203, static	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
l-(+)-lactic acid	EC ₅₀	130	<i>Daphnia magna</i> Straus	Method not given	48
alkyl ether carboxylic acid		No data available			
methanesulphonic acid	EC ₅₀	10 - 100	<i>Daphnia magna</i> Straus	OECD 202, static	48
alkyl polyglucoside	EC ₅₀	> 100	<i>Daphnia magna</i> Straus		48
sulphonic acids, C14-17-sec-alkane, sodium salts	EC ₅₀	9.81	<i>Daphnia magna</i> Straus	OECD 202 (EU C.2)	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
l-(+)-lactic acid	EC ₅₀	> 2800	<i>Pseudokirchneriella subcapitata</i>	Method not given	72
alkyl ether carboxylic acid		No data available			
methanesulphonic acid	EC ₅₀	12 - 24	<i>Pseudokirchneriella subcapitata</i>	OECD 201 (EU C.3)	72
alkyl polyglucoside	EC ₅₀	> 100	<i>Selenastrum capricornutum</i>		72
sulphonic acids, C14-17-sec-alkane, sodium salts	EC ₅₀	> 61	<i>Pseudokirchneriella subcapitata</i>	OECD 201 (EU C.3)	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value	Species	Method	Exposure
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	(mg/l)	time (days)
l-(+)-lactic acid	No data available	
alkyl ether carboxylic acid	No data available	
methanesulphonic acid	No data available	
alkyl polyglucoside	No data available	
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available	

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
l-(+)-lactic acid	EC ₅₀	> 100	Activated sludge	Method not given	3 hour(s)
alkyl ether carboxylic acid		No data available			
methanesulphonic acid	EC ₂₀	> 1000	Activated sludge	DIN EN ISO 8192-OECD 209-88/302/EEC	0.5 hour(s)
alkyl polyglucoside		No data available			
sulphonic acids, C14-17-sec-alkane, sodium salts	NOEC	600	<i>Pseudomonas putida</i>	DIN 38412 / Part 8	16 hour(s)

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
l-(+)-lactic acid	LOEC	2.18	<i>Not specified</i>	Method not given	90 day(s)	
alkyl ether carboxylic acid		No data available				
methanesulphonic acid		No data available				
alkyl polyglucoside		No data available				
sulphonic acids, C14-17-sec-alkane, sodium salts	NOEC	0.85	<i>Oncorhynchus mykiss</i>	OECD 204	28 day(s)	

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
l-(+)-lactic acid		No data available				
alkyl ether carboxylic acid		No data available				
methanesulphonic acid		No data available				
alkyl polyglucoside		No data available				
sulphonic acids, C14-17-sec-alkane, sodium salts	NOEC	0.36	<i>Daphnia magna</i>	OECD 202	22 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
l-(+)-lactic acid		No data available			-	
alkyl ether carboxylic acid		No data available				
methanesulphonic acid		No data available				
alkyl polyglucoside		No data available				
sulphonic acids, C14-17-sec-alkane, sodium salts		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
sulphonic acids, C14-17-sec-alkane, sodium salts	NOEC	470	<i>Eisenia fetida</i>	OECD 222	56	

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Terrestrial toxicity - plants, if available:

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:

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
l-(+)-lactic acid	Activated sludge, aerobe		> 60%	Method not given	Readily biodegradable, without 10 day window
alkyl ether carboxylic acid					Readily biodegradable
methanesulphonic acid		COD removal	>90% in 28 day(s)	OECD 301A	Readily biodegradable
alkyl polyglucoside	Activated sludge, aerobe	Oxygen depletion	90 % in 28 day(s)	OECD 301D	Readily biodegradable
sulphonic acids, C14-17-sec-alkane, sodium salts	Activated sludge, aerobe	DOC reduction	89 % in 28 day(s)	OECD 301E	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
l-(+)-lactic acid	-0.72	Method not given	Not relevant, does not bioaccumulate	
alkyl ether carboxylic acid	No data available			
methanesulphonic acid	-5.17		No bioaccumulation expected	
alkyl polyglucoside	1.1			
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available		No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
l-(+)-lactic acid	No data available				
alkyl ether carboxylic acid	No data available				
methanesulphonic acid	No data available				
alkyl polyglucoside	No data available			Low potential for bioaccumulation	
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K _{oc}	Desorption coefficient Log K _{oc} (des)	Method	Soil/sediment type	Evaluation
l-(+)-lactic acid	No data available				Low potential for adsorption to soil
alkyl ether carboxylic acid	No data available				
methanesulphonic acid	0		Model calculation		Mobile in soil
alkyl polyglucoside	No data available				
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available				

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12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

12.7 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Waste from residues / unused products:**

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

European Waste Catalogue:

20 01 14* - acids.

Empty packaging**Recommendation:**

Dispose of observing national or local regulations.

Suitable cleaning agents:

Water, if necessary with cleaning agent.

SECTION 14: Transport information**Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)**

14.1 UN number: 3265

14.2 UN proper shipping name:

Corrosive liquid, acidic, organic, n.o.s. (methanesulphonic acid)

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 8

14.4 Packing group: II

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: C3

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)
- Biocidal Products Regulations 2001 (SI 2001/880)
- Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

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

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Ingredients according to Detergents Regulation

anionic surfactants	5 - 15 %
non-ionic surfactants	< 5 %
perfumes , Hexyl Cinnamal, Limonene, Alpha-Isomethyl Ionone	

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

Comah - classification: Not classified

15.2 Chemical safety assessment

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

SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

SDS code: MS1005381

Version: 01.1

Revision: 2022-04-03

Reason for revision:

Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 3, 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:

- H290 - May be corrosive to metals.
- H302 - Harmful if swallowed.
- H312 - Harmful in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H335 - May cause respiratory irritation.
- H412 - Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- ERC - Environmental release categories
- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organisation for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative

End of Safety Data Sheet