

Taski Sani 4 in 1 SD

Revision: 2015-02-11

Version: 05.0

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

1.1 Product identifier

Trade name: Taski Sani 4 in 1 SD

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

Identified uses:

For professional use only.

AISE-P305 - Sanitary cleaner. Manual process

AISE-P306 - Sanitary cleaner. Spray and wipe manual process

AISE-P314 - Surface disinfectant. Manual process

AISE-P315 - Surface disinfectant. Spray and rinse manual 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, 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: 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. 1B (H314)

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

Indication of danger

C - Corrosive

Risk phrases:

R35 - Causes severe burns.

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.

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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

Ingredient(s)	EC number	CAS number	REACH number	Classification	Classification (1999/45/EC)	Notes	Weight percent
isotridecanol, ethoxylated	Polymer*	69011-36-5	[4]	Acute Tox. 4 (H302) Eye Dam. 1 (H318)	Xn;R22 Xi;R41		10-20
methanesulphonic acid	200-898-6	75-75-2	01-2119491166-34	Skin Corr. 1B (H314) Met. Corr. 1 (H290)	C;R34		3-10
hexan-1-ol, ethoxylated	500-077-5	31726-34-8	No data available	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	Xn;R22 Xi;R36/38		3-10
ethanol	200-578-6	64-17-5	No data available	Flam. Liq. 2 (H225)	F;R11		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		3-10

* 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.

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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)
ethanol	1000 ppm 1920 mg/m ³	3000 ppm 5760 mg/m ³

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
isotridecanol, ethoxylated	No data available	No data available	No data available	No data available
methanesulphonic acid	-	-	-	8.33
hexan-1-ol, ethoxylated	No data available	No data available	No data available	No data available
ethanol	No data available	No data available	No data available	No data available
salicylic acid	-	4	-	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)
isotridecanol, ethoxylated	No data available	No data available	No data available	No data available
methanesulphonic acid	No data available	-	No data available	19.44
hexan-1-ol, ethoxylated	No data available	No data available	No data available	No data available
ethanol	No data available	No data available	No data available	No data available
salicylic acid	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)
isotridecanol, ethoxylated	No data available	No data available	No data available	No data available
methanesulphonic acid	No data available	-	No data available	8.33
hexan-1-ol, ethoxylated	No data available	No data available	No data available	No data available
ethanol	No data available	No data available	No data available	No data available
salicylic acid	No data available	-	No data available	1

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DNEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
isotridecanol, ethoxylated	No data available	No data available	No data available	No data available
methanesulphonic acid	-	-	2.89	6.76
hexan-1-ol, ethoxylated	No data available	No data available	No data available	No data available
ethanol	No data available	No data available	No data available	No data available
salicylic acid	-	-	-	16

DNEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
isotridecanol, ethoxylated	No data available	No data available	No data available	No data available
methanesulphonic acid	-	1.44	1.73	1.44
hexan-1-ol, ethoxylated	No data available	No data available	No data available	No data available
ethanol	No data available	No data available	No data available	No data available
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)
isotridecanol, ethoxylated	No data available	No data available	No data available	No data available
methanesulphonic acid	0.012	0.0012	0.12	100
hexan-1-ol, ethoxylated	No data available	No data available	No data available	No data available
ethanol	No data available	No data available	No data available	No data available
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 ³)
isotridecanol, ethoxylated	No data available	No data available	No data available	No data available
methanesulphonic acid	0.0251	-	0.00183	0.12
hexan-1-ol, ethoxylated	No data available	No data available	No data available	No data available
ethanol	No data available	No data available	No data available	No data available
salicylic acid	1.42	0.142	1.66	-

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). 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

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

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.

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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 (%): 8

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: Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product.

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

Body protection: No special requirements under normal use conditions.

Respiratory protection: No special requirements under normal use conditions.

Environmental exposure controls: No special requirements under normal use conditions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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

Method / remark

Physical State: Liquid

Colour: Clear, Red

Odour: Slightly perfumed

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)
isotridecanol, ethoxylated	No data available		
methanesulphonic acid	167	Method not given	
hexan-1-ol, ethoxylated	No data available		
ethanol	78.4	Method not given	
salicylic acid	256	Method not given	1013

Method / remark

Flash point (°C): ≈ 53

Sustained combustion: This product with a flashpoint between 21 °C and 60 °C does not support combustion

Evaporation rate: Not determined

Flammability (solid, gas): Not determined

Upper/lower flammability limit (%): Not determined

closed cup
Weight of evidence

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)
isotridecanol, ethoxylated	No data available		
methanesulphonic acid	0.0475	Method not given	20
hexan-1-ol, ethoxylated	No data available		
ethanol	5800	Method not given	
salicylic acid	0.02	Method not given	25

Method / remark

Vapour density: Not determined

Relative density: 1.04 g/cm³ (20 °C)

Solubility in / Miscibility with Water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
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isotridecanol, ethoxylated	Soluble	Method not given	20
methanesulphonic acid	Soluble		
hexan-1-ol, ethoxylated	No data available		
ethanol	No data available		
salicylic acid	2	Method not given	20

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. Vapours may form explosive mixtures with air.

Oxidising properties: Not oxidising

9.2 Other information

Surface tension (N/m): Not determined

Corrosion to metals: Not corrosive

UN Manual of Tests and Criteria, section 37

Substance data, dissociation constant, if available:

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

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

None known under normal storage and use conditions.

10.5 Incompatible materials

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

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)
isotridecanol, ethoxylated	LD ₅₀	> 2000	Rat	OECD 423 (EU B.1 tris)	
methanesulphonic acid	LD ₅₀	649	Rat	OECD 401 (EU B.1)	-
hexan-1-ol, ethoxylated		No data available			
ethanol	LD ₅₀	5000	Rat	OECD 401 (EU B.1)	-
salicylic acid	LD ₅₀	891	Rat	Method not given	-

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
isotridecanol, ethoxylated		No data available			
methanesulphonic acid	LD ₀	> 1000	Rabbit	OECD 402 (EU B.3)	-
hexan-1-ol, ethoxylated		No data available			
ethanol	LD ₅₀	> 10000	Rabbit	OECD 402 (EU B.3)	-
salicylic acid	LD ₅₀	> 2000	Rat	Method not given	-

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Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
isotridecanol, ethoxylated		No data available			
methanesulphonic acid	LC ₅₀	1.3	Rat	Method not given	-
hexan-1-ol, ethoxylated		No data available			
ethanol	LC ₅₀	> 1800	Rat	Non guideline test	4
salicylic acid		No data available			-

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
isotridecanol, ethoxylated	Not irritant	Rabbit	OECD 404 (EU B.4)	
methanesulphonic acid	Corrosive			1 hour(s)
hexan-1-ol, ethoxylated	No data available			
ethanol	No data available			
salicylic acid	Not irritant	Rabbit	Method not given	24 hour(s)

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
isotridecanol, ethoxylated	Severe damage	Rabbit	OECD 405 (EU B.5)	
methanesulphonic acid	Severe damage	Rabbit	OECD 405 (EU B.5)	
hexan-1-ol, ethoxylated	No data available			
ethanol	No data available			
salicylic acid	Severe damage	Rabbit	Method not given	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
isotridecanol, ethoxylated	No data available			
methanesulphonic acid	No data available			
hexan-1-ol, ethoxylated	No data available			
ethanol	No data available			
salicylic acid	No data available		Method not given	

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
isotridecanol, ethoxylated	No data available			
methanesulphonic acid	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	-
hexan-1-ol, ethoxylated	No data available			
ethanol	No data available			-
salicylic acid	Not sensitising	Mouse	Method not given	-

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
isotridecanol, ethoxylated	No data available			
methanesulphonic acid	No data available			-
hexan-1-ol, ethoxylated	No data available			
ethanol	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)
isotridecanol, ethoxylated	No data available		No data available	
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)
hexan-1-ol, ethoxylated	No data available		No data available	
ethanol	No data available		No data available	
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
isotridecanol, ethoxylated	No data available
methanesulphonic acid	No data available
hexan-1-ol, ethoxylated	No data available
ethanol	No data available

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salicylic acid	No evidence for carcinogenicity, negative test results
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Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
isotridecanol, ethoxylated			No data available				
methanesulphonic acid	NOAEL	Impaired fertility Developmental toxicity	>= 400	Rat	OECD 414 (EU B.31), oral OECD 421, oral		No evidence for reproductive toxicity
hexan-1-ol, ethoxylated			No data available				
ethanol			No data available				
salicylic acid	NOAEL	Developmental toxicity	50	Rat	Not known		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
isotridecanol, ethoxylated		No data available				
methanesulphonic acid		No data available			-	
hexan-1-ol, ethoxylated		No data available				
ethanol		No data available			-	
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
isotridecanol, ethoxylated		No data available				
methanesulphonic acid		No data available			-	
hexan-1-ol, ethoxylated		No data available				
ethanol		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
isotridecanol, ethoxylated		No data available				
methanesulphonic acid	NOAEL	0.026	Rat	Method not given	30	
hexan-1-ol, ethoxylated		No data available				
ethanol		No data available			-	
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
isotridecanol, ethoxylated			No data available					
methanesulphonic acid			No data available					
hexan-1-ol, ethoxylated			No data available					
ethanol			No data available					
salicylic acid			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
isotridecanol, ethoxylated	No data available
methanesulphonic acid	No data available
hexan-1-ol, ethoxylated	No data available
ethanol	No data available
salicylic acid	No data available

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STOT-repeated exposure

Ingredient(s)	Affected organ(s)
isotridecanol, ethoxylated	No data available
methanesulphonic acid	No data available
hexan-1-ol, ethoxylated	No data available
ethanol	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

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
isotridecanol, ethoxylated	LC ₅₀	10 - 100	<i>Leuciscus idus</i>	Method not given	96
methanesulphonic acid	LC ₅₀	73	<i>Oncorhynchus mykiss</i>	OECD 203	96
hexan-1-ol, ethoxylated		No data available			
ethanol	LC ₅₀	8150	<i>Alburnus alburnus</i>	Method not given	96
salicylic acid	LC ₅₀	90	<i>Leuciscus idus</i>	Method not given	-

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
isotridecanol, ethoxylated	EC ₅₀	10 - 100	<i>Not specified</i>	Method not given	48
methanesulphonic acid	EC ₅₀	10 - 100	<i>Daphnia magna Straus</i>	Method not given	48
hexan-1-ol, ethoxylated		No data available			
ethanol	EC ₅₀	9268 - 14221	<i>Daphnia magna Straus</i>	Method not given	48
salicylic acid	EC ₅₀	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)
isotridecanol, ethoxylated	EC ₅₀	10 - 100	<i>Not specified</i>	Method not given	72
methanesulphonic acid	EC ₅₀	12 - 24	<i>Pseudokirchneriella subcapitata</i>	OECD 201	72
hexan-1-ol, ethoxylated		No data available			
ethanol	EC ₀	5000	<i>Scenedesmus quadricauda</i>	Method not given	168
salicylic acid	EC ₅₀	> 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)
isotridecanol, ethoxylated		No data available			-
methanesulphonic acid		No data available			-
hexan-1-ol, ethoxylated		No data available			
ethanol		No data available			-
salicylic acid		No data available			-

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value	Inoculum	Method	Exposure
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		(mg/l)			time
isotridecanol, ethoxylated	EC ₁₀	> 10000	<i>Bacteria</i>	DIN 38412 / Part 8	17 hour(s)
methanesulphonic acid	EC ₂₀	> 1000	<i>Activated sludge</i>	DIN EN ISO 8192-OECD 209-88/302/EEC	0.5 hour(s)
hexan-1-ol, ethoxylated		No data available			
ethanol	EC ₀	6500	<i>Pseudomonas putida</i>	Method not given	16 hour(s)
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
isotridecanol, ethoxylated		No data available				
methanesulphonic acid		No data available				
hexan-1-ol, ethoxylated		No data available				
ethanol		No data available				
salicylic acid		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
isotridecanol, ethoxylated		No data available				
methanesulphonic acid		No data available				
hexan-1-ol, ethoxylated		No data available				
ethanol		No data available				
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
isotridecanol, ethoxylated		No data available			-	
methanesulphonic acid		No data available			-	
hexan-1-ol, ethoxylated		No data available				
ethanol		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
isotridecanol, ethoxylated		No data available			-	
methanesulphonic acid		No data available			-	
ethanol		No data available			-	
salicylic acid		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
isotridecanol, ethoxylated		No data available			-	
methanesulphonic acid		No data available			-	
ethanol		No data available			-	
salicylic acid		No data available			-	

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Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
isotridecanol, ethoxylated		No data available			-	
methanesulphonic acid		No data available			-	
ethanol		No data available			-	
salicylic acid		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
isotridecanol, ethoxylated		No data available			-	
methanesulphonic acid		No data available			-	
ethanol		No data available			-	
salicylic acid		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
isotridecanol, ethoxylated		No data available			-	
methanesulphonic acid		No data available			-	
ethanol		No data available			-	
salicylic acid		No data 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
isotridecanol, ethoxylated		CO ₂ production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
methanesulphonic acid		COD removal	100 % in 28 day(s)	OECD 301A	Readily biodegradable
hexan-1-ol, ethoxylated					No data available
ethanol					No data available
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
isotridecanol, ethoxylated	No data available		No bioaccumulation expected	
methanesulphonic acid	-2.83		No bioaccumulation expected	
hexan-1-ol, ethoxylated	No data available			
ethanol	No data available			
salicylic acid	2.2	Method not given	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
isotridecanol, ethoxylated	No data available				
methanesulphonic acid	No data available				
hexan-1-ol, ethoxylated	No data available				

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ethanol	No data available				
salicylic acid	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
isotridecanol, ethoxylated	No data available				Potential for adsorption to soil
methanesulphonic acid	0		Model calculation		Mobile in soil
hexan-1-ol, ethoxylated	No data available				
ethanol	No data available				
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.
20 01 14* - acids.

European Waste Catalogue:**Empty packaging****Recommendation:**

Dispose of observing national or local regulations.

Suitable cleaning agents:

Water, if necessary with cleaning agent.

SECTION 14: Transport information**ADR, RID, ADN, IMO/IMDG, ICAO/IATA****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):**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:** 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**

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

Ingredients according to EC Detergents Regulation 648/2004

non-ionic surfactants 15 - 30%
disinfectants, perfumes, Benzyl Salicylate, Hexyl Cinnamal, Butylphenyl Methylpropional,
Limonene, Alpha-Isomethyl Ionone

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: MS1000309

Version: 05.0

Revision: 2015-02-11

Reason for revision:

Overall design adjusted in accordance with Amendment 453/2010, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 3, 8

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:

- H225 - Highly flammable liquid and vapour.
- H290 - May be corrosive to metals.
- H302 - Harmful if swallowed.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- R11 - Highly flammable.
- R22 - Harmful if swallowed.
- R34 - Causes burns.
- 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