Taski Sani 4 in 1 SD

Revision: 2015-11-01 **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.
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	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) Eye Irrit. 2 (H319)	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.
Workplace exposure limit(s), if available, are listed in subsection 8.1.
[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.
[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.
[3] Exempted: Annex V of Regulation (EC) No 1907/2006.
[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.
For the full text of the R, H and EUH phrases mentioned in this Section, see Section 16.

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 adviced 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/m³	3000 ppm 5760 mg/m³

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

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/m³)
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 of the Safety Data Sheet.
If available, please refer to the product information sheet for application and handling instructions.
Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:
Covering activities such as filling and transfer of product to application equipment, flasks or buckets

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

Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment

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

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

Suggested gloves for prolonged contact:
Material: butyl rubber
Penetration time: >= 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: 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.

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 closed cup
Sustained combustion: This product with a flashpoint between 21 °C and 60 °C does not support combustion Weight of evidence
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)
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)
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 applicable.
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

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	-

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
isotridecanol, ethoxylated		No data available			
methanesulphonic acid	LC_0	> 0.0188 (vapour) No mortality observed	Rat	Method not given	1
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
salicylic acid	No evidence for carcinogenicity, negative test results

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
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	Endpoint	Value	Species	Method	Exposure	Specific effects and	Remark

	route		(mg/kg bw/d)			time	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					

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

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	*Leuciscus idus*	Method not given	96
methanesulphonic acid	LC_{50}	73	*Oncorhynchus mykiss*	OECD 203	96
hexan-1-ol, ethoxylated		No data available			
ethanol	LC_{50}	8150	*Alburnus alburnus*	Method not given	96
salicylic acid	LC_{50}	90	*Leuciscus idus*	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	*Not specified*	Method not given	48
methanesulphonic acid	EC_{50}	10 - 100	*Daphnia magna Straus*	Method not given	48
hexan-1-ol, ethoxylated		No data available			
ethanol	EC_{50}	9268 - 14221	*Daphnia magna Straus*	Method not given	48
salicylic acid	EC_{50}	105	*Daphnia magna Straus*	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	*Not specified*	Method not given	72
methanesulphonic acid	EC_{50}	12 - 24	*Pseudokirchneriella subcapitata*	OECD 201	72

hexan-1-ol, ethoxylated		No data available			
ethanol	EC_0	5000	*Scenedesmus quadricauda*	Method not given	168
salicylic acid	EC_{50}	> 100	*Desmodesmus subspicatus*	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 (mg/l)	Inoculum	Method	Exposure time
isotridecanol, ethoxylated	EC_{10}	> 10000	*Bacteria*	DIN 38412 / Part 8	17 hour(s)
methanesulphonic acid	EC_{20}	> 1000	*Activated sludge*	DIN EN ISO 8192-OECD 209-88/302/EEC	0.5 hour(s)
hexan-1-ol, ethoxylated		No data available			
ethanol	EC_0	6500	*Pseudomonas putida*	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	*Daphnia magna*	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			-	

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				
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.

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: 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

EU regulations:
Regulation (EU) No 528/2012 on biocidal products

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	< 5 %
perfumes, Benzyl Salicylate, Butylphenyl Methylpropional, Hexyl Cinnamal, 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

SDS code: MS1000309 **Version:** 05.0 **Revision:** 2015-11-01

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