Safety Data Sheet

According to Regulation (EC) No 1907/2006

Taski Sani 4 in 1 SD

Revision: 2014-02-06 *Version: 01*

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 Ltd

Contact details
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 Directive 1999/45/EC and corresponding national legislation.

Indication of danger
Xi - Irritant

Risk phrases:
R38 - Irritating to skin.
R41 - Risk of serious damage to eyes.

2.2 Label elements
Xi - Irritant

Risk phrases:
R38 - Irritating to skin.
R41 - Risk of serious damage to eyes.

Safety phrases:
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39 - Wear suitable gloves and eye/face protection.

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 (EC) 1272/2008	Notes	Weight percent
isotridecanol, ethoxylated	Polymer*	69011-36-5	[4]	Xn;R22 Xi;R41	Eye Dam. 1 (H318) Acute Tox. 4 (H302)		10-20
methanesulphonic acid	200-898-6	75-75-2	01-2119491166-34	C;R34	Skin Corr. 1B (H314)		3-10
alkyl alcohol ethoxylate	Polymer*	-	[4]	Xn;R22 Xi;R36/38	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)		3-10
ethanol	200-578-6	64-17-5	No data available	F;R11	Flam. Liq. 2 (H225)		3-10
salicylic acid	200-712-3	69-72-7	01-2119486984-17	Xn;R22 Xi;R41	Eye Dam. 1 (H318) Acute Tox. 4 (H302)		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 Remove from source of exposure. Get medical attention.
Skin contact: Rinse with plenty of water. Take off all contaminated clothing immediately. If irritation develops get medical attention.
Eye contact: Wash off immediately with plenty of water. Get medical attention immediately.
Ingestion: Remove material from mouth. Immediately drink 1-2 glasses of water or milk. Get medical attention.
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: Causes irritation.
Skin contact: Causes irritation.
Eye contact: Causes severe irritation.
Ingestion: Causes irritation.
Sensitisation: No known effects.

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

Wear suitable 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

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

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

Advice on safe handling:

Handle in accordance with good industrial hygiene and safety practice. Do not mix with other products unless advised by Diversey. For advice on general occupational hygiene see subsection 8.2. For environmental exposure controls see subsection 8.2. For incompatible materials see subsection 10.5.

Prevention of fire and explosion:
No special precautions required.

7.2 Conditions for safe storage, including any incompatibilities
Requirements for storage rooms / facilities:
In accordance with local and national regulations.

Combined storage in storage rooms / facilities:
In accordance with local and national regulations. Store away from products containing chlorine-based bleaching agents or sulphites.

Basic storage conditions
Store in original container. Keep container tightly closed. For conditions to avoid see subsection 10.4.

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	No data available	No data available	No data available	8.33
alkyl alcohol ethoxylate	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	4	No data available	1

DNEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
isotridecanol, ethoxylated	No data available	No data available	No data available	No data available
methanesulphonic acid	No data available	No data available	No data available	19.44
alkyl alcohol ethoxylate	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	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	No data available	8.33
alkyl alcohol ethoxylate	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	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	No data available	No data available	2.89	6.76
alkyl alcohol ethoxylate	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	No data available	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	No data available	1.44	1.73	1.44
alkyl alcohol ethoxylate	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	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
alkyl alcohol ethoxylate	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	No data available	0.00183	0.12
alkyl alcohol ethoxylate	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	No data available

8.2 Exposure controls

General health and safety measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Take off immediately all contaminated clothing. Wash hands before breaks and at the end of workday. Avoid contact with skin and eyes.

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:

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

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

Personal protective equipment

Eye / face protection: Safety glasses or goggles (EN 166).

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

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

Respiratory protection: No special requirements under normal use conditions.

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

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (%): 8

Appropriate engineering controls: No special requirements under normal use conditions.

Appropriate organisational controls: No special requirements under normal use conditions.

Personal protective equipment .

Eye / face protection: No special requirements under normal use conditions.

Hand protection: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.
Body protection: No special requirements under normal use conditions.
Respiratory protection: No special requirements under normal use conditions.

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
Information in this section refers to the product, unless it is specifically stated that substance data is listed

Method / remark

Physical State: Liquid
Colour: Clear, 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	
alkyl alcohol ethoxylate	> 200	Method not given	1013
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 UN Manual of Tests and Criteria, section 32, L.2
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
alkyl alcohol ethoxylate	< 10	Method not given	20
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		
alkyl alcohol ethoxylate	Soluble	Method not given	15
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.
Oxidising properties: Not oxidising.

9.2 Other information
Surface tension (N/m): Not determined
Corrosion to metals
(according to IMDG/ADR regulation): Not determined

Substance data, dissociation constant, if available:

SECTION 10: Stability and reactivity

10.1 Reactivity
No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability
Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions
No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid
None known under normal storage and use conditions.

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

10.6 Hazardous decomposition products
None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Mixtures
No test data is available on the mixture

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)	
alkyl alcohol ethoxylate	LD_{50}	500 - 2000	Rat	Method not given	
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)	
alkyl alcohol ethoxylate	LD_{50}	> 2000	Rat	Method not given	
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_{50}	1.3	Rat	Method not given	
alkyl alcohol ethoxylate		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)
alkyl alcohol ethoxylate	Irritant	Rabbit	Method not given	
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)	
alkyl alcohol ethoxylate	Irritant	Rabbit	Method not given	
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			
alkyl alcohol ethoxylate	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	
alkyl alcohol ethoxylate	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			
alkyl alcohol ethoxylate	No data available			
ethanol	No data available			
salicylic acid	No data available			

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				
alkyl alcohol ethoxylate		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				
alkyl alcohol ethoxylate		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	
alkyl alcohol ethoxylate		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					
alkyl alcohol ethoxylate			No data available					
ethanol			No data available					
salicylic acid			No data available					

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
Mixture data:
Based on available data, the classification criteria are not met.

Substance data, where relevant and available:

Carcinogenicity

Ingredient(s)	Effect
isotridecanol, ethoxylated	No data available
methanesulphonic acid	No data available
alkyl alcohol ethoxylate	No data available
ethanol	No data available
salicylic acid	No evidence for carcinogenicity, negative test results

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)
alkyl alcohol ethoxylate	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

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
alkyl alcohol ethoxylate			No data available				
ethanol			No data available				
salicylic acid	NOAEL	Developmental toxicity	50	Rat	Not known		No evidence for reproductive toxicity

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
Mixtures
No test 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
alkyl alcohol ethoxylate	LC_{50}	> 100	Brachydanio rerio	Method not given	96
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
alkyl alcohol ethoxylate	EC_{50}	> 100	Daphnia magna Straus	Method not given	48
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
alkyl alcohol ethoxylate	EC_{50}	> 100	Desmodesmus subspicatus	Method not given	72
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			
alkyl alcohol ethoxylate		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)
alkyl alcohol ethoxylate	EC_{50}	> 1000		Method not given	
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				
alkyl alcohol ethoxylate		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				
alkyl alcohol ethoxylate		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				
alkyl alcohol ethoxylate		No data available				
ethanol		No data available				
salicylic acid		No data available				

Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

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
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
alkyl alcohol ethoxylate		CO_2 production	> 60% in 28 day(s)	OECD 301B	Readily biodegradable
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	
alkyl alcohol ethoxylate	No data available		No bioaccumulation expected	
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				
alkyl alcohol ethoxylate	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
alkyl alcohol ethoxylate	No data available				Low potential for adsorption to soil
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 29* - detergents containing dangerous substances.

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: Non-dangerous goods
14.2 UN proper shipping name: Non-dangerous goods
14.3 Transport hazard class(es): Non-dangerous goods
Class: -
14.4 Packing group: Non-dangerous goods
14.5 Environmental hazards: Non-dangerous goods
14.6 Special precautions for user: Non-dangerous goods
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.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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

Ingredients according to EC Detergents Regulation 648/2004
non-ionic surfactants 15 - 30%
perfumes, disinfectants, 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

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Full text of the R, H and EUH phrases mentioned in section 3:
- R41 - Risk of serious damage to eyes.
- R22 - Harmful if swallowed.
- R34 - Causes burns.
- R10 - Flammable.
- R38 - Irritating to skin.
- R36/38 - Irritating to eyes and skin.
- 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.

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

End of Safety Data Sheet