



## Taski Sani 4 in 1 J-Flex

Revision: 2017-11-26

Version: 03.2

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

#### 1.1 Product identifier

**Trade name:** Taski Sani 4 in 1 J-Flex

#### 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

##### Contact details

Diversey Hygiene Sales Limited  
Jamestown Road, Finglas, Dublin 11, Ireland  
Tel: 01 8081808 (9am - 5pm Mon-Fri)  
Email: dublin.orders@diversey.com

#### 1.4 Emergency telephone number

Tel: 01 8081808 (9am - 5pm Mon-Fri)

After hours: National Poisons Centre, Beaumont Hospital, Dublin 9

Tel: 01 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)

Tel: 01 809 2566 (health care professionals)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Skin Corr. 1B (H314)

Met. Corr. 1 (H290)

#### 2.2 Label elements



**Signal word:** Danger.

Contains methanesulphonic acid (Methanesulphonic Acid).

#### Hazard statements:

H314 - Causes severe skin burns and eye damage.

H290 - May be corrosive to metals.

#### 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	Notes	Weight percent
isotridecanol, ethoxylated	Polymer*	69011-36-5	[4]	Acute Tox. 4 (H302) Eye Dam. 1 (H318)		10-20
methanesulphonic acid	200-898-6	75-75-2	01-2119491166-34	Skin Corr. 1B (H314) Met. Corr. 1 (H290)		3-10
hexan-1-ol, ethoxylated	Present	31726-34-8	No data available	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2A (H319)		3-10
ethanol	200-578-6	64-17-5	01-2119457610-43	Flam. Liq. 2 (H225)		3-10
salicylic acid	200-712-3	69-72-7	01-2119486984-17	Acute Tox. 4 (H302) Eye Dam. 1 (H318)		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 H and EUH phrases mentioned in this Section, see Section 16.

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

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

**Inhalation:**

Get medical attention or advice if you feel unwell.

**Skin contact:**

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

**Eye contact:**

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

**Ingestion:**

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

**Self-protection of first aider:**

Consider personal protective equipment as indicated in subsection 8.2.

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

No known effects or symptoms in normal use.

**Skin contact:**

Causes severe burns.

**Eye contact:**

Causes severe or permanent damage.

**Ingestion:**

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

**4.3 Indication of any immediate medical attention and special treatment needed**

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

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

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**

## Taski Sani 4 in 1 J-Flex

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 Diversey. 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. Keep from freezing. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

**7.3 Specific end use(s)**

No specific advice for end use available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

Ingredient(s)	Long term value(s)	Short term value(s)
ethanol		1000 ppm

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	[-]	[-]	[-]	[-]
methanesulphonic acid	-	-	-	8.33
hexan-1-ol, ethoxylated	No data available	No data available	No data available	No data available
ethanol	-	No data available	-	87
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	-	[-]	-	[-]
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	-	-	-	343
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	-	[-]	-	[-]
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	-	-	-	206
salicylic acid	No data available	-	No data available	1

DNEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic

## Taski Sani 4 in 1 J-Flex

	effects	effects	effects	effects
isotridecanol, ethoxylated	-	-	-	-
methanesulphonic acid	-	-	2.89	6.76
hexan-1-ol, ethoxylated	No data available	No data available	No data available	No data available
ethanol	1900	-	-	950
salicylic acid	-	-	-	16

DNEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
isotridecanol, ethoxylated	-	-	-	-
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	950	-	-	114
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	-	-	-	-
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	0.96	0.79	2.75	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 <sup>3</sup> )
isotridecanol, ethoxylated	-	-	-	-
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	3.6	2.9	0.63	-
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 (EN 14605).

**Respiratory protection:** Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted or unneutralised.

Recommended safety measures for handling the *diluted* product:

**Recommended maximum concentration (%):** 8

**Appropriate engineering controls:** No special requirements under normal use conditions. Provide a good standard of general ventilation.

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

## Taski Sani 4 in 1 J-Flex

**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

Not relevant to classification of this product

**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:** The product does not sustain combustion  
( UN Manual of Tests and Criteria, section 32, L.2 )

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)
isotridecanol, ethoxylated	[-]	[-]
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	< 10		20
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 (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

## Taski Sani 4 in 1 J-Flex

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:** Corrosive

Not relevant to classification of this product  
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 and metals. 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 <sub>50</sub>	> 300-2000	Rat	Weight of evidence	
methanesulphonic acid	LD <sub>50</sub>	649	Rat	OECD 401 (EU B.1)	
hexan-1-ol, ethoxylated		No data available			
ethanol	LD <sub>50</sub>	5000	Rat	OECD 401 (EU B.1)	
salicylic acid	LD <sub>50</sub>	891	Rat	Method not given	

Acute dermal toxicity

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

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
isotridecanol, ethoxylated		No data available			
methanesulphonic acid	LC <sub>0</sub>	> 0.0188	Mouse	Method not given	1

## Taski Sani 4 in 1 J-Flex

		(vapour) No mortality observed			
hexan-1-ol, ethoxylated		No data available			
ethanol	LC <sub>50</sub>	> 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	Mouse		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 evidence for mutagenicity	Method not given Weight of evidence	No evidence for mutagenicity, negative test results	Method not given Weight of evidence
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 evidence for carcinogenicity, weight-of-evidence
methanesulphonic acid	No data available
hexan-1-ol, ethoxylated	No data available

## Taski Sani 4 in 1 J-Flex

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	NOAEL	Maternal toxicity	> 250	Rat	Weight of evidence		Not toxic for reproduction
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	Non guideline test		Indications of possible developmental 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	Oral	NOAEL	50	Rat	Weight of evidence	24 month(s)	Effects on body weight and food/water consumption Effects on organ weights	
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	Not applicable
methanesulphonic acid	Respiratory tract

## Taski Sani 4 in 1 J-Flex

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	Not applicable
methanesulphonic acid	Respiratory tract
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 <sub>50</sub>	> 1 - 10	<i>Cyprinus carpio</i>	OECD 203 (EU C.1) Weight of evidence	96
methanesulphonic acid	LC <sub>50</sub>	73	<i>Oncorhynchus mykiss</i>	OECD 203 (EU C.1)	96
hexan-1-ol, ethoxylated		No data available			
ethanol	LC <sub>50</sub>	8150	<i>Alburnus alburnus</i>	Method not given	96
salicylic acid	LC <sub>50</sub>	90	<i>Leuciscus idus</i>	Method not given	-

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
isotridecanol, ethoxylated	EC <sub>50</sub>	> 1 - 10	<i>Daphnia magna</i> Straus	OECD 202, static	48
methanesulphonic acid	EC <sub>50</sub>	10 - 100	<i>Daphnia magna</i> Straus	OECD 202, static	48
hexan-1-ol, ethoxylated		No data available			
ethanol	EC <sub>50</sub>	9268 - 14221	<i>Daphnia magna</i> Straus	Method not given	48
salicylic acid	EC <sub>50</sub>	105	<i>Daphnia magna</i> Straus	Method not given	24

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
isotridecanol, ethoxylated	EC <sub>50</sub>	> 1 - 10	<i>Desmodesmus subspicatus</i>	OECD 201, static Weight of evidence	72
methanesulphonic acid	EC <sub>50</sub>	12 - 24	<i>Pseudokirchneriella subcapitata</i>	OECD 201 (EU C.3)	72
hexan-1-ol, ethoxylated		No data available			
ethanol	EC <sub>0</sub>	5000	<i>Scenedesmus quadricauda</i>	Method not given	168
salicylic acid	EC <sub>50</sub>	> 100	<i>Desmodesmus subspicatus</i>	Method not given	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
isotridecanol, ethoxylated		No data available			-
methanesulphonic acid		No data available			-

## Taski Sani 4 in 1 J-Flex

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 <sub>10</sub>	> 10000	<i>Bacteria</i>	DIN 38412 / Part 8	17 hour(s)
methanesulphonic acid	EC <sub>20</sub>	> 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 <sub>0</sub>	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	Species	Method	Exposure	Effects observed
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## Taski Sani 4 in 1 J-Flex

		(mg/kg dw soil)			time (days)	
isotridecanol, ethoxylated	NOEC	10	<i>Lepidium sativum</i>	OECD 208	-	
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 <sub>50</sub>	Method	Evaluation
isotridecanol, ethoxylated		CO <sub>2</sub> production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
methanesulphonic acid		COD removal	>70 % in 28 day(s)	OECD 301A	Readily biodegradable
hexan-1-ol, ethoxylated					No data available
ethanol				OECD 301B	Readily biodegradable
salicylic acid			100% in 14 day(s)	Method not given	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

## 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log K<sub>ow</sub>)

Ingredient(s)	Value	Method	Evaluation	Remark
isotridecanol, ethoxylated	No data available		No bioaccumulation expected	
methanesulphonic acid	-5.17		No bioaccumulation expected	
hexan-1-ol, ethoxylated	No data available			
ethanol	No data available			

## Taski Sani 4 in 1 J-Flex

salicylic acid	2.2	Method not given	No bioaccumulation expected
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## Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
isotridecanol, ethoxylated	No data available			No bioaccumulation expected	
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				Immobile in soil or sediment
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:**

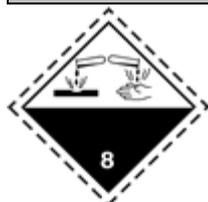
20 01 14\* - acids.

**Empty packaging****Recommendation:**

Dispose of observing national or local regulations.

**Suitable cleaning agents:**

Water, if necessary with cleaning agent.

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

14.1 UN number: 3265

14.2 UN proper shipping name:

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

14.3 Transport hazard class(es):

Class: 8

Label(s): 8

14.4 Packing group: III

14.5 Environmental hazards:

14.6 Special precautions for user: None known.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: The product is not transported in bulk tankers.

**Other relevant information:****ADR**

Classification code: C3

Tunnel restriction code: E

Hazard identification number: 80

**IMO/IMDG**

EmS: F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code. Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

## SECTION 15: Regulatory information

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

#### EU regulations:

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP
- Regulation (EU) No 528/2012 on biocidal products
- Regulation (EC) No. 648/2004 - Detergents regulation

**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, Benzyl Salicylate, Butylphenyl Methylpropional, Hexyl Cinnamal, Limonene,  
 Alpha-Isomethyl Ionone, disinfectants

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.

### 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:** MS1000330

**Version:** 03.2

**Revision:** 2017-11-26

#### Reason for revision:

This data sheet contains changes from the previous version in section(s):, 15, 16

#### Classification procedure

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

#### Full text of the H and EUH phrases mentioned in section 3:

- 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.

#### 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**