



## Taski Jontec Forward SD F4i

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Version: 02.1

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

#### 1.1 Product identifier

**Trade name:** Taski Jontec Forward SD F4i

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

##### Identified uses:

For professional use only.

AISE-P401 - Floor cleaner. Semi-automatic process

AISE-P403 - Floor cleaner. 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, Maarssebroeksedijk 2, 3542DN Utrecht, The Netherlands

#### Contact details

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: customerservice.uk@diversey.com

#### 1.4 Emergency telephone number

For medical or environmental emergency only:

call 0800 052 0185

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Skin Irrit. 2 (H315)

Eye Irrit. 2 (H319)

#### 2.2 Label elements



**Signal word:** Warning.

#### Hazard statements:

H315 + H319 - Causes skin and serious eye irritation.

#### 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
(2-methoxymethylethoxy)propanol	252-104-2	34590-94-8	01-2119450011-60	Not classified as hazardous		10-20
sodium alkylbenzenesulphonate	290-656-6	90194-45-9	No data available	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)		3-10
alkyl alcohol alkoxylate	Polymer*	196823-11-7	[4]	Eye Irrit. 2 (H319)		3-10
alkyl alcohol ethoxylate	Polymer*	69011-36-5	[4]	Acute Tox. 4 (H302) Eye Dam. 1 (H318)		1-3
2-aminoethanol	205-483-3	141-43-5	01-2119486455-28	Skin Corr. 1B (H314)		1-3

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				Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) STOT SE 3 (H335) Aquatic Chronic 3 (H412)	
alkyl alcohol ethoxylate	Polymer*	61827-42-7	[4]	Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	1-3
ammonia	215-647-6	1336-21-6	01-2119488876-14	Skin Corr. 1B (H314) STOT SE 3 (H335) Aquatic Acute 1 (H400)	0.1-1

\* Polymer.

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

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

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Inhalation:**

Get medical attention or advice if you feel unwell.

**Skin contact:**

Wash skin with plenty of lukewarm, gently flowing water. Take off immediately all contaminated clothing and wash it before re-use. If skin irritation occurs: Get medical advice or attention.

**Eye contact:**

Immediately rinse eyes cautiously with lukewarm water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

**Ingestion:**

Rinse mouth. Immediately drink 1 glass of water. Get medical attention or advice if you feel unwell.

**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 irritation.

**Eye contact:**

Causes severe irritation.

**Ingestion:**

No known effects or symptoms in normal use.

### 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

No special measures required.

### 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

**Measures to prevent fire and explosions:**

No special precautions required.

**Measures required to protect the environment:**

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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. Use personal protective equipment as required. 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)
(2-methoxymethylethoxy)propanol	50 ppm 308 mg/m <sup>3</sup>	150 ppm 924 mg/m <sup>3</sup>
2-aminoethanol	1 ppm 2.5 mg/m <sup>3</sup>	3 ppm 7.6 mg/m <sup>3</sup>

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
(2-methoxymethylethoxy)propanol	-	-	-	1.67
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-
2-aminoethanol	-	-	-	3.75
alkyl alcohol ethoxylate	-	-	-	-
ammonia	-	-	-	-

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)
(2-methoxymethylethoxy)propanol	No data available	-	No data available	65
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-
2-aminoethanol	No data available	-	No data available	1
alkyl alcohol ethoxylate	-	-	-	-
ammonia	No data available	6.8	No data available	6.8

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)
(2-methoxymethylethoxy)propanol	No data available	-	No data available	15
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-
2-aminoethanol	No data available	-	No data available	0.24
alkyl alcohol ethoxylate	-	-	-	-
ammonia	No data available	-	No data available	-

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

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
(2-methoxymethylethoxy)propanol	-	-	-	310
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available

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alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	No data available
2-aminoethanol	-	-	3.3	3.3
alkyl alcohol ethoxylate	-	-	-	-
ammonia	36	47.6	14	47.6

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
(2-methoxymethylethoxy)propanol	-	-	-	37.2
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	No data available	No data available	-	-
2-aminoethanol	-	-	2	2
alkyl alcohol ethoxylate	-	-	-	-
ammonia	-	-	-	-

## 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)
(2-methoxymethylethoxy)propanol	19	1.9	190	4168
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-
2-aminoethanol	0.085	0.0085	0.025	100
alkyl alcohol ethoxylate	-	-	-	-
ammonia	0.0011	0.011	-	-

## Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m <sup>3</sup> )
(2-methoxymethylethoxy)propanol	70.2	7.02	2.74	190
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-
2-aminoethanol	0.425	0.0425	0.035	0.025
alkyl alcohol ethoxylate	-	-	-	-
ammonia	-	-	-	-

## 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:** No special requirements under normal use conditions.  
**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

## 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 (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 (%):** 0.5

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**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:** 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, Colourless

**Odour:** Product specific

**Odour threshold:** Not applicable

**pH:** ≈ 11 (neat)

**Dilution pH:** Not measured

**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)
(2-methoxymethylethoxy)propanol	189.6	Method not given	1013
sodium alkylbenzenesulphonate	No data available		
alkyl alcohol alkoxylate	No data available		
alkyl alcohol ethoxylate	> 200	Method not given	
2-aminoethanol	169-171	Method not given	1013
alkyl alcohol ethoxylate	No data available		
ammonia	28.5	Method not given	

**Method / remark**

**Flash point (°C):** Not applicable.

**Sustained combustion:** Not applicable.

( 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)
(2-methoxymethylethoxy)propanol	1.1	14
2-aminoethanol	3.4	27
ammonia	15.4	33.6

**Method / remark**

**Vapour pressure:** Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
(2-methoxymethylethoxy)propanol	5500	Method not given	20
sodium alkylbenzenesulphonate	No data available		
alkyl alcohol alkoxylate	No data available		
alkyl alcohol ethoxylate	Negligible	Method not given	20-25
2-aminoethanol	50	Method not given	20
alkyl alcohol ethoxylate	No data available		
ammonia	586500	Method not given	20

**Method / remark**

**Vapour density:** Not determined

**Relative density:** ≈ 1.03 (20 °C)

**Solubility in / Miscibility with Water:** Fully miscible

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Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
(2-methoxymethylethoxy)propanol	Soluble	Method not given	20
sodium alkylbenzenesulphonate	No data available		
alkyl alcohol alkoxylate	No data available		
alkyl alcohol ethoxylate	Soluble	Method not given	20
2-aminoethanol	1000	Method not given	20
alkyl alcohol ethoxylate	Partly soluble		
ammonia	100 Soluble	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.  
**Oxidising properties:** Not oxidising.

## 9.2 Other information

**Surface tension (N/m):** Not determined  
**Corrosion to metals:** Not corrosive

Not relevant to classification of this product

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 acids.

## 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): &gt;2000

ATE - Dermal (mg/kg): &gt;2000

ATE - Inhalatory, vapours (mg/l): &gt;20

## Eye irritation and corrosivity

Result: Eye irritant 2

Method: OECD 438

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)
(2-methoxymethylethoxy)propanol	LD <sub>50</sub>	> 4000	Rat	Method not given	
sodium alkylbenzenesulphonate		No data available			
alkyl alcohol alkoxylate		No data available			
alkyl alcohol ethoxylate	LD <sub>50</sub>	> 300 - 2000	Rat	OECD 423 (EU B.1 tris)	
2-aminoethanol	LD <sub>50</sub>	1515	Rat	OECD 401 (EU B.1)	

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alkyl alcohol ethoxylate	LD <sub>50</sub>	> 5000	Rat	Method not given	
ammonia	LD <sub>50</sub>	350	Rat	Method not given	

## Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
(2-methoxymethylethoxy)propanol	LD <sub>50</sub>	9510	Rabbit	Method not given	
sodium alkylbenzenesulphonate		No data available			
alkyl alcohol alkoxylate		No data available			
alkyl alcohol ethoxylate	LD <sub>50</sub>	> 2000	Rabbit	Method not given	
2-aminoethanol	LD <sub>50</sub>	1025	Rabbit	Method not given	
alkyl alcohol ethoxylate		No data available			
ammonia		No data available			

## Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
(2-methoxymethylethoxy)propanol	LC <sub>0</sub>	> 1.667 (vapour) No mortality observed	Rat		7
sodium alkylbenzenesulphonate		No data available			
alkyl alcohol alkoxylate		No data available			
alkyl alcohol ethoxylate		No data available			
2-aminoethanol		No mortality observed	Rat	Non guideline test	6
alkyl alcohol ethoxylate		No data available			
ammonia	LC <sub>50</sub>	7.035	Rat	Method not given	0.5

## Irritation and corrosivity

## Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
(2-methoxymethylethoxy)propanol	Not irritant		Method not given	
sodium alkylbenzenesulphonate	No data available			
alkyl alcohol alkoxylate	No data available			
alkyl alcohol ethoxylate	Not irritant	Rabbit	OECD 404 (EU B.4)	
2-aminoethanol	Corrosive	Rabbit	OECD 404 (EU B.4)	
alkyl alcohol ethoxylate	Irritant	Rabbit	Method not given	
ammonia	Corrosive		Method not given	

## Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
(2-methoxymethylethoxy)propanol	Not corrosive or irritant		Method not given	
sodium alkylbenzenesulphonate	No data available			
alkyl alcohol alkoxylate	No data available			
alkyl alcohol ethoxylate	Severe damage	Rabbit	Method not given	
2-aminoethanol	Severe damage	Rabbit	OECD 405 (EU B.5)	
alkyl alcohol ethoxylate	Severe damage	Rabbit	Method not given	
ammonia	Severe damage		Method not given	

## Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
(2-methoxymethylethoxy)propanol	No data available			
sodium alkylbenzenesulphonate	No data available			
alkyl alcohol alkoxylate	No data available			
alkyl alcohol ethoxylate	No data available			
2-aminoethanol	Irritating to respiratory tract		Method not given	
alkyl alcohol ethoxylate	No data available			
ammonia	Irritating to respiratory tract		Method not given	

## Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
(2-methoxymethylethoxy)propanol	Not sensitising		Method not given	
sodium alkylbenzenesulphonate	No data available			
alkyl alcohol alkoxylate	No data available			
alkyl alcohol ethoxylate	Not sensitising	Guinea pig	Method not given	
2-aminoethanol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
alkyl alcohol ethoxylate	No data available			
ammonia	Not sensitising		Method not given	

## Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
(2-methoxymethylethoxy)propanol	No data available			
sodium alkylbenzenesulphonate	No data available			
alkyl alcohol alkoxylate	No data available			
alkyl alcohol ethoxylate	No data available			
2-aminoethanol	No data available			
alkyl alcohol ethoxylate	No data available			
ammonia	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)
(2-methoxymethylethoxy)propanol	No evidence for mutagenicity, negative test results	Method not given	No data available	
sodium alkylbenzenesulphonate	No data available		No data available	
alkyl alcohol alkoxylate	No data available		No data available	
alkyl alcohol ethoxylate	No evidence of genotoxicity, negative test results	Method not given	No evidence of genotoxicity, negative test results	Method not given
2-aminoethanol	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 473 OECD 476 (Mouse lymphoma)	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
alkyl alcohol ethoxylate	No data available		No data available	
ammonia	No evidence for mutagenicity		No evidence for mutagenicity	

## Carcinogenicity

Ingredient(s)	Effect
(2-methoxymethylethoxy)propanol	No evidence for carcinogenicity, negative test results
sodium alkylbenzenesulphonate	No data available
alkyl alcohol alkoxylate	No data available
alkyl alcohol ethoxylate	No evidence for carcinogenicity, weight-of-evidence
2-aminoethanol	No evidence for carcinogenicity, weight-of-evidence
alkyl alcohol ethoxylate	No data available
ammonia	No data available

## Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
(2-methoxymethylethoxy)propanol			No data available				No evidence for reproductive toxicity
sodium alkylbenzenesulphonate			No data available				
alkyl alcohol alkoxylate			No data available				
alkyl alcohol ethoxylate	NOAEL	Teratogenic effects	> 50	Rat	Not known		No known significant effects or critical hazards
2-aminoethanol	NOAEL	Developmental toxicity	> 75	Rabbit	OECD 414 (EU B.31), oral	6 - 15 day(s)	No evidence for developmental toxicity No evidence for reproductive toxicity
alkyl alcohol ethoxylate			No data available				
ammonia			No data available				No evidence for reproductive toxicity

## Repeated dose toxicity

## Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
(2-methoxymethylethoxy)propanol		No data available				
sodium alkylbenzenesulphonate		No data				



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		available				
alkyl alcohol alkoxylate		No data available				
alkyl alcohol ethoxylate		No data available				
2-aminoethanol	NOAEL	300	Rat		75	
alkyl alcohol ethoxylate		No data available				
ammonia	NOAEL	68		Method not given		

## Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
(2-methoxymethylethoxy)propanol		No data available				
sodium alkylbenzenesulphonate		No data available				
alkyl alcohol alkoxylate		No data available				
alkyl alcohol ethoxylate		No data available				
2-aminoethanol		No data available				
alkyl alcohol ethoxylate		No data available				
ammonia		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
(2-methoxymethylethoxy)propanol		No data available				
sodium alkylbenzenesulphonate		No data available				
alkyl alcohol alkoxylate		No data available				
alkyl alcohol ethoxylate		No data available				
2-aminoethanol		No data available				
alkyl alcohol ethoxylate		No data available				
ammonia		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
(2-methoxymethylethoxy)propanol			No data available					
sodium alkylbenzenesulphonate			No data available					
alkyl alcohol alkoxylate			No data available					
alkyl alcohol ethoxylate	Oral	NOAEL	50	Rat	Method not given	24 month(s)	Effects on organ weights	
2-aminoethanol			No data available					
alkyl alcohol ethoxylate			No data available					
ammonia			No data available					

## STOT-single exposure

Ingredient(s)	Affected organ(s)
(2-methoxymethylethoxy)propanol	No data available
sodium alkylbenzenesulphonate	No data available
alkyl alcohol alkoxylate	No data available
alkyl alcohol ethoxylate	Not applicable
2-aminoethanol	No data available
alkyl alcohol ethoxylate	No data available
ammonia	No data available

## STOT-repeated exposure

Ingredient(s)	Affected organ(s)
(2-methoxymethylethoxy)propanol	No data available
sodium alkylbenzenesulphonate	No data available

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alkyl alcohol alkoxylate	No data available
alkyl alcohol ethoxylate	Not applicable
2-aminoethanol	No data available
alkyl alcohol ethoxylate	No data available
ammonia	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)
(2-methoxymethylethoxy)propanol	LC <sub>50</sub>	> 1000	<i>Poecilia reticulata</i>	Method not given	96
sodium alkylbenzenesulphonate		No data available			
alkyl alcohol alkoxylate		No data available			
alkyl alcohol ethoxylate	LC <sub>50</sub>	1 - 10	<i>Cyprinus carpio</i>	OECD 203 (EU C.1)	96
2-aminoethanol	LC <sub>50</sub>	349	<i>Cyprinus carpio</i>	OECD 203 (EU C.1)	96
alkyl alcohol ethoxylate	LC <sub>50</sub>	10 - 100	<i>Oncorhynchus mykiss</i>	Method not given	96
ammonia	LC <sub>50</sub>	0.56 - 2.48	<i>Fish</i>	Method not given	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
(2-methoxymethylethoxy)propanol	EC <sub>50</sub>	1919	<i>Daphnia magna Straus</i>	Method not given	48
sodium alkylbenzenesulphonate		No data available			
alkyl alcohol alkoxylate		No data available			
alkyl alcohol ethoxylate	EC <sub>50</sub>	1 - 10	<i>Daphnia magna Straus</i>	OECD 202, static	48
2-aminoethanol	EC <sub>50</sub>	65	<i>Daphnia magna Straus</i>	OECD 202, static	48
alkyl alcohol ethoxylate	EC <sub>50</sub>	10 - 100	<i>Not specified</i>	Read across	48
ammonia	EC <sub>50</sub>	1.1 - 22.8	<i>Daphnia magna Straus</i>	Method not given	-

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
(2-methoxymethylethoxy)propanol	EC <sub>50</sub>	> 969	<i>Selenastrum capricornutum</i>	Method not given	72
sodium alkylbenzenesulphonate		No data available			
alkyl alcohol alkoxylate		No data available			
alkyl alcohol ethoxylate	EC <sub>50</sub>	1 - 10	<i>Desmodesmus subspicatus</i>	OECD 201, static	72
2-aminoethanol	NOEC	1	<i>Pseudokirchneriella subcapitata</i>	OECD 201 (EU C.3)	72
alkyl alcohol ethoxylate	EC <sub>50</sub>	10 - 100	<i>Not specified</i>	Read across	72
ammonia		No data available			-

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
(2-methoxymethylethoxy)propanol		No data			-

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		available			
sodium alkylbenzenesulphonate		No data available			
alkyl alcohol alkoxyate		No data available			
alkyl alcohol ethoxyate		No data available			-
2-aminoethanol		No data available			-
alkyl alcohol ethoxyate		No data available			-
ammonia		No data available			-

## Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
(2-methoxymethylethoxy)propanol	EC <sub>10</sub>	4168	<i>Pseudomonas putida</i>	Method not given	
sodium alkylbenzenesulphonate		No data available			
alkyl alcohol alkoxyate		No data available			
alkyl alcohol ethoxyate	EC <sub>10</sub>	> 10000	Activated sludge	DIN 38412 / Part 8	17 hour(s)
2-aminoethanol	EC <sub>50</sub>	> 1000	Activated sludge	DIN EN ISO 8192-OECD 209-88/302/EEC	3 hour(s)
alkyl alcohol ethoxyate	EC <sub>10</sub>	> 2000	Activated sludge	DEV-L2	
ammonia		No data available			

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
(2-methoxymethylethoxy)propanol		No data available				
sodium alkylbenzenesulphonate		No data available				
alkyl alcohol alkoxyate		No data available				
alkyl alcohol ethoxyate		No data available				
2-aminoethanol	NOEC	1.2	<i>Oryzias latipes</i>	OECD 210	30 day(s)	
alkyl alcohol ethoxyate		No data available				
ammonia		No data available				

## Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
(2-methoxymethylethoxy)propanol	NOEC	> 0.5	<i>Daphnia magna</i>	Method not given	22 day(s)	
sodium alkylbenzenesulphonate		No data available				
alkyl alcohol alkoxyate		No data available				
alkyl alcohol ethoxyate		No data available				
2-aminoethanol	NOEC	0.85	<i>Daphnia magna</i>	OECD 211	21 day(s)	
alkyl alcohol ethoxyate		No data available				
ammonia		No data available				

## 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
(2-methoxymethylethoxy)propanol		No data available			-	
sodium alkylbenzenesulphonate		No data available				
alkyl alcohol alkoxyate		No data available				
alkyl alcohol ethoxyate		No data available			-	
2-aminoethanol		No data			-	

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		available				
alkyl alcohol ethoxylate		No data available			-	
ammonia		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
(2-methoxymethylethoxy)propanol		No data available			-	
alkyl alcohol ethoxylate	NOEC	220	<i>Eisenia fetida</i>		-	
2-aminoethanol		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
ammonia		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
(2-methoxymethylethoxy)propanol		No data available			-	
alkyl alcohol ethoxylate	NOEC	10	<i>Lepidium sativum</i>	OECD 208	-	
2-aminoethanol		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
ammonia		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
(2-methoxymethylethoxy)propanol		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
2-aminoethanol		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
ammonia		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
(2-methoxymethylethoxy)propanol		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
2-aminoethanol		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
ammonia		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
(2-methoxymethylethoxy)propanol		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
2-aminoethanol		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
ammonia		No data available			-	

**12.2 Persistence and degradability**

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**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
(2-methoxymethylethoxy)propanol	< 1 day(s)	Method not given	Rapidly photodegradable	

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
(2-methoxymethylethoxy)propanol		Oxygen depletion	75 % in 28 day(s)	OECD 301F	Readily biodegradable
sodium alkylbenzenesulphonate					Readily biodegradable
alkyl alcohol alkoxylate					No data available
alkyl alcohol ethoxylate		CO <sub>2</sub> production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
2-aminoethanol		DOC reduction	> 90 % in 21 day(s)	OECD 301A	Readily biodegradable
alkyl alcohol ethoxylate		CO <sub>2</sub> production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
ammonia					Not applicable (inorganic substance)

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
(2-methoxymethylethoxy)propanol	1.01	Method not given	Low potential for bioaccumulation	
sodium alkylbenzenesulphonate	No data available			
alkyl alcohol alkoxylate	No data available			
alkyl alcohol ethoxylate	No data available			
2-aminoethanol	- 1.91	OECD 107	No bioaccumulation expected	
alkyl alcohol ethoxylate	No data available		No bioaccumulation expected	
ammonia	0.23	Method not given	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
(2-methoxymethylethoxy)propanol	No data available				
sodium alkylbenzenesulphonate	No data available				
alkyl alcohol alkoxylate	No data available				
alkyl alcohol ethoxylate	No data available				
2-aminoethanol	No data available				
alkyl alcohol ethoxylate	No data available				
ammonia	No data available				

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K <sub>oc</sub>	Desorption coefficient Log K <sub>oc</sub> (des)	Method	Soil/sediment type	Evaluation
(2-methoxymethylethoxy)propanol	No data available				High potential for mobility in soil
sodium alkylbenzenesulphonate	No data available				
alkyl alcohol alkoxylate	No data available				
alkyl alcohol ethoxylate	No data available				Immobile in soil or sediment
2-aminoethanol	0.067		Model calculation		Potential for mobility in soil, soluble in water Adsorption to solid soil phase is not expected
alkyl alcohol ethoxylate	No data available				Potential for mobility in soil, soluble in water
ammonia	No data available				Low mobility 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****Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)**

**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 and the IBC Code:** Non-dangerous goods

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations:**

- Regulation (EC) No 1272/2008 - CLP
- Regulation (EC) No. 1907/2006 - REACH
- 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**

anionic surfactants, non-ionic surfactants  
soap

5 - 15%  
< 5%

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:** MS1000837

**Version:** 02.1

**Revision:** 2018-01-25

**Reason for revision:**

This data sheet contains changes from the previous version in section(s):, 2, 3, 16

**Classification procedure**

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

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

- H302 - Harmful if swallowed.
- H312 - Harmful in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H332 - Harmful if inhaled.
- H335 - May cause respiratory irritation.

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- H400 - Very toxic to aquatic life.
- H412 - Harmful to aquatic life with long lasting effects.

**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**