



## Clax Profi Forte 36C1

Revision: 2023-07-26

Version: 06.3

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

#### 1.1 Product identifier

**Trade name:** Clax Profi Forte 36C1

UFI: 0XW0-C05T-T00P-MEUH

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

**Product use:** Laundry detergent.  
For professional use only.

**Uses advised against:** Uses other than those identified are not recommended.

#### SWED - Sector-specific worker exposure description :

AISE\_SWED\_PW\_8a\_1  
AISE\_SWED\_PW\_8b\_1  
AISE\_SWED\_PW\_1\_1  
AISE\_SWED\_PW\_4\_1

#### 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

Seek medical advice (show the label or safety data sheet where possible)  
For medical or environmental emergency only:  
call 0800 052 0185

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Skin Corr. 1B (H314)  
Eye Dam. 1 (H318)  
Met. Corr. 1 (H290)

#### 2.2 Label elements



**Signal word:** Danger.

Contains alkyl alcohol ethoxylate (C9-11 Pareth-5-10), disodium/dipotassium metasilicate (Sodium/Potassium Metasilicate), potassium alkylbenzenesulphonate (Potassium Dodecylbenzenesulfonate)

#### Hazard statements:

H290 - May be corrosive to metals.  
H314 - Causes severe skin burns and eye damage.

#### Precautionary statements:

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.

## Clax Profi Forte 36C1

Continue rinsing.  
P310 - Immediately call a POISON CENTRE, doctor or physician.

**2.3 Other hazards**

No other hazards known.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
alkyl alcohol ethoxylate	[4]	68439-46-3	[4]	Acute Tox. 4 (H302) Eye Dam. 1 (H318)		10-20
disodium/dipotassium metasilicate	215-687-4 215-199-1	-	[1]	Skin Corr. 1B (H314) STOT SE 3 (H335) Eye Dam. 1 (H318) Met. Corr. 1 (H290)		3-10
tripotassium citrate	212-755-5	866-84-2	[1]	Not classified as hazardous		3-10
potassium alkylbenzenesulphonate	287-337-9	85480-57-5	[1]	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)		3-10
potassium hydroxide	215-181-3	1310-58-3	01-2119487136-33	Skin Corr. 1A (H314) Acute Tox. 4 (H302) Met. Corr. 1 (H290)		0.1-1
sodium hydroxide	215-185-5	1310-73-2	01-2119457892-27	Skin Corr. 1A (H314) Met. Corr. 1 (H290)		0.1-1

**Specific concentration limits**

potassium hydroxide:

- Eye Dam. 1 (H318) >= 2% > Eye Irrit. 2 (H319) >= 0.5%
- Skin Corr. 1A (H314) >= 5% > Skin Corr. 1B (H314) >= 2% > Skin Irrit. 2 (H315) >= 0.5%

sodium hydroxide:

- Eye Dam. 1 (H318) >= 2% > Eye Irrit. 2 (H319) >= 0.5%
- Skin Corr. 1A (H314) >= 5% > Skin Corr. 1B (H314) >= 2% > Skin Irrit. 2 (H315) >= 0.5%

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

ATE, if available, are listed in section 11.

[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.

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

**Inhalation:**

Remove person to fresh air and keep comfortable for breathing. 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 reuse. 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**

Wear suitable protective clothing. Wear eye/face protection. Wear suitable gloves.

**6.2 Environmental precautions**

Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water.

**6.3 Methods and material for containment and cleaning up**

Dyke to collect large liquid spills. Use neutralising agent. Absorb with liquid-binding material (sand, diatomite, universal binders). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

**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 face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging.

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)
potassium hydroxide		2 mg/m <sup>3</sup>
sodium hydroxide		2 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/DMEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
alkyl alcohol ethoxylate	-	-	-	-

disodium/dipotassium metasilicate	-	-	-	-
tripotassium citrate	No data available	No data available	No data available	No data available
potassium alkylbenzenesulphonate	-	-	-	0.425
potassium hydroxide	-	-	-	-
sodium hydroxide	-	-	-	-

## DNEL/DMEL 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)
alkyl alcohol ethoxylate	-	-	-	-
disodium/dipotassium metasilicate	-	-	-	1.49
tripotassium citrate	No data available	No data available	No data available	No data available
potassium alkylbenzenesulphonate	No data available	-	No data available	-
potassium hydroxide	No data available	-	No data available	-
sodium hydroxide	2 %	-	-	-

## DNEL/DMEL 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)
alkyl alcohol ethoxylate	-	-	-	-
disodium/dipotassium metasilicate	-	-	-	1.38
tripotassium citrate	No data available	No data available	No data available	No data available
potassium alkylbenzenesulphonate	No data available	-	No data available	-
potassium hydroxide	No data available	-	No data available	-
sodium hydroxide	2 %	-	-	-

DNEL/DMEL 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
alkyl alcohol ethoxylate	-	-	-	-
disodium/dipotassium metasilicate	-	-	-	-
tripotassium citrate	No data available	No data available	No data available	No data available
potassium alkylbenzenesulphonate	-	-	-	-
potassium hydroxide	-	-	1	-
sodium hydroxide	-	-	1	-

DNEL/DMEL 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
alkyl alcohol ethoxylate	-	-	-	-
disodium/dipotassium metasilicate	-	-	-	-
tripotassium citrate	No data available	No data available	No data available	No data available
potassium alkylbenzenesulphonate	-	-	-	-
potassium hydroxide	-	-	1	-
sodium hydroxide	-	-	1	-

## 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)
alkyl alcohol ethoxylate	-	-	-	-
disodium/dipotassium metasilicate	-	-	-	-
tripotassium citrate	No data available	No data available	No data available	No data available
potassium alkylbenzenesulphonate	-	-	-	-
potassium hydroxide	-	-	-	-
sodium hydroxide	-	-	-	-

## Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m <sup>3</sup> )
alkyl alcohol ethoxylate	-	-	-	-
disodium/dipotassium metasilicate	-	-	-	-
tripotassium citrate	No data available	No data available	No data available	No data available
potassium alkylbenzenesulphonate	-	-	-	-
potassium hydroxide	-	-	-	-
sodium hydroxide	-	-	-	-

## 8.2 Exposure controls

## Clax Profi Forte 36C1

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:

- 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.

**REACH use scenarios considered for the undiluted product:**

	SWED - Sector-specific worker exposure description	LCS	PROC	Duration (min)	ERC
Manual transfer and dilution	AISE_SWED_PW_8a_1	PW	PROC 8a	60	ERC8a
Automatic transfer and dilution	AISE_SWED_PW_8b_1	PW	PROC 8b	60	ERC8b

**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:  $\geq 480$  min Material thickness:  $\geq 0.7$  mm  
Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time:  $\geq 30$  min Material thickness:  $\geq 0.4$  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:**

No special requirements under normal use conditions.

**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 (% w/w):** 0.7

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

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

**REACH use scenarios considered for the diluted product:**

	SWED	LCS	PROC	Duration (min)	ERC
Automatic application in a dedicated closed system	AISE_SWED_PW_1_1	PW	PROC 1	480	ERC8a
Automatic application in a dedicated system	AISE_SWED_PW_4_1	PW	PROC 4	480	ERC8a

**Personal protective equipment**

**Eye / face protection:**

No special requirements under normal use conditions.

**Hand protection:**

No special requirements under normal use conditions.

**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
<b>Physical state:</b> Liquid	
<b>Colour:</b> Milky , Medium , Yellow	
<b>Odour:</b> Product specific	
<b>Odour threshold:</b> Not applicable	
<b>Melting point/freezing point (°C):</b> Not determined	Not relevant to classification of this product
<b>Initial boiling point and boiling range (°C):</b> Not determined	See substance data

Substance data, boiling point

## Clax Profi Forte 36C1

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
alkyl alcohol ethoxylate	> 232.2	Method not given	
disodium/dipotassium metasilicate	No data available		
tripotassium citrate	No data available		
potassium alkylbenzenesulphonate	No data available		
potassium hydroxide	Not applicable to solids or gases	Method not given	
sodium hydroxide	> 990	Method not given	

## Method / remark

**Flammability (solid, gas):** Not applicable to liquids

**Flammability (liquid):** Not flammable.

**Flash point (°C):** Not determined

**Sustained combustion:** Not applicable.

( UN Manual of Tests and Criteria, section 32, L.2 )

**Lower and upper explosion limit/flammability limit (%):** Not determined

Substance data, flammability or explosive limits, if available:

## Method / remark

**Autoignition temperature:** Not determined

**Decomposition temperature:** ≈ 100 (°C)

**pH:** ≥ 11.5 (neat)

**Dilution pH:** > 11 (0.7 %)

**Kinematic viscosity:** Not determined

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

ISO 4316

ISO 4316

DM-006 Viscosity - Standard

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
alkyl alcohol ethoxylate	100 Soluble	Method not given	
disodium/dipotassium metasilicate	No data available		
tripotassium citrate	No data available		
potassium alkylbenzenesulphonate	No data available		
potassium hydroxide	No data available		
sodium hydroxide	1000	Method not given	20

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

## Method / remark

**Vapour pressure:** Not determined

See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
alkyl alcohol ethoxylate	< 10	Method not given	37.8
disodium/dipotassium metasilicate	No data available		
tripotassium citrate	No data available		
potassium alkylbenzenesulphonate	< 1	Read across	
potassium hydroxide	Negligible	Method not given	
sodium hydroxide	< 1330	Method not given	20

## Method / remark

**Relative density:** ≈ 1.18 (20 °C)

**Relative vapour density:** -

**Particle characteristics:** No data available.

OECD 109 (EU A.3)

Not relevant to classification of this product

Not applicable to liquids.

## 9.2 Other information

### 9.2.1 Information with regard to physical hazard classes

**Explosive properties:** Not explosive.

**Oxidising properties:** Not oxidising.

**Corrosion to metals:** Corrosive

### 9.2.2 Other safety characteristics

No other relevant information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

## Clax Profi Forte 36C1

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**

May be corrosive to metals. Reacts with acids.

**10.6 Hazardous decomposition products**

None known under normal storage and use conditions.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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)	ATE (mg/kg)
alkyl alcohol ethoxylate	LD <sub>50</sub>	1400	Rat	Weight of evidence		1400
disodium/dipotassium metasilicate		No data available				Not established
tripotassium citrate		3000		Weight of evidence		3000
potassium alkylbenzenesulphonate	LD <sub>50</sub>	1080				1080
potassium hydroxide	LD <sub>50</sub>	333	Rat	OECD 425		333
sodium hydroxide		No data available				Not established

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
alkyl alcohol ethoxylate	LD <sub>50</sub>	2000 - 5000	Rat	Weight of evidence		Not established
disodium/dipotassium metasilicate		No data available				Not established
tripotassium citrate		> 2000		Weight of evidence		Not established
potassium alkylbenzenesulphonate		No data available				Not established
potassium hydroxide		No data available				Not established
sodium hydroxide	LD <sub>50</sub>	1350	Rabbit	Method not given		1350

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate		No data available			
disodium/dipotassium metasilicate		No data available			
tripotassium citrate		No data available			
potassium alkylbenzenesulphonate		No data available			
potassium hydroxide		No data available			
sodium hydroxide		No data available			

## Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust (mg/l)	ATE - inhalation, mist (mg/l)	ATE - inhalation, vapour (mg/l)	ATE - inhalation, gas (mg/l)
alkyl alcohol ethoxylate	Not established	Not established	Not established	Not established
disodium/dipotassium metasilicate	Not established	Not established	Not established	Not established
tripotassium citrate	Not established	Not established	Not established	Not established
potassium alkylbenzenesulphonate	Not established	Not established	Not established	Not established
potassium hydroxide	Not established	Not established	Not established	Not established
sodium hydroxide	Not established	Not established	Not established	Not established

## Irritation and corrosivity

## Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	Not irritant		Weight of evidence	
disodium/dipotassium metasilicate	No data available			
tripotassium citrate	No data available			
potassium alkylbenzenesulphonate	No data available			
potassium hydroxide	Corrosive	Rabbit	Draize test	
sodium hydroxide	Corrosive	Rabbit	Method not given	

## Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	Severe damage	Rabbit	Weight of evidence OECD 437	
disodium/dipotassium metasilicate	No data available			
tripotassium citrate	No data available			
potassium alkylbenzenesulphonate	No data available			
potassium hydroxide	Corrosive	Rabbit	Method not given	
sodium hydroxide	Corrosive	Rabbit	Method not given	

## Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	No data available			
disodium/dipotassium metasilicate	No data available			
tripotassium citrate	No data available			
potassium alkylbenzenesulphonate	No data available			
potassium hydroxide	No data available			
sodium hydroxide	No data available			

## Sensitisation

## Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate	Not sensitising		Weight of evidence	
disodium/dipotassium metasilicate	No data available			
tripotassium citrate	No data available			
potassium alkylbenzenesulphonate	No data available			
potassium hydroxide	Not sensitising	Guinea pig	Method not given	
sodium hydroxide	Not sensitising		Human repeated patch test	

## Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	No data available			
disodium/dipotassium metasilicate	No data available			
tripotassium citrate	No data available			
potassium alkylbenzenesulphonate	No data available			
potassium hydroxide	No data available			
sodium hydroxide	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)
alkyl alcohol ethoxylate	No evidence for mutagenicity, negative test results	OECD 473	No data available	
disodium/dipotassium metasilicate	No data available		No data available	



## Clax Profi Forte 36C1

tripotassium citrate	No data available		No data available	
potassium alkylbenzenesulphonate	No data available		No data available	
potassium hydroxide	No evidence for mutagenicity, negative test results	Method not given	No data available	
sodium hydroxide	No evidence for mutagenicity, negative test results	DNA repair test on rat hepatocytes OECD 473	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12) OECD 475 (EU B.11)

## Carcinogenicity

Ingredient(s)	Effect
alkyl alcohol ethoxylate	No evidence for carcinogenicity, negative test results
disodium/dipotassium metasilicate	No data available
tripotassium citrate	No data available
potassium alkylbenzenesulphonate	No data available
potassium hydroxide	No evidence for carcinogenicity, negative test results
sodium hydroxide	No evidence for carcinogenicity, weight-of-evidence

## Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
alkyl alcohol ethoxylate	NOAEL		> 250	Rat	Not known		No effects on fertility No developmental toxicity
disodium/dipotassium metasilicate			No data available				
tripotassium citrate			No data available				
potassium alkylbenzenesulphonate			No data available				
potassium hydroxide			No data available				No evidence for reproductive toxicity
sodium hydroxide			No data available				No evidence for developmental toxicity 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
alkyl alcohol ethoxylate	NOAEL	80 - 400		OECD 408 (EU B.26)		
disodium/dipotassium metasilicate		No data available				
tripotassium citrate		No data available				
potassium alkylbenzenesulphonate		No data available				
potassium hydroxide		No data available				
sodium hydroxide		No data available				

## Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
alkyl alcohol ethoxylate	NOAEL	80		OECD 411 (EU B.28)	90	
disodium/dipotassium metasilicate		No data available				
tripotassium citrate		No data available				
potassium alkylbenzenesulphonate		No data available				
potassium hydroxide		No data available				
sodium hydroxide		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
alkyl alcohol ethoxylate		No data available				
disodium/dipotassium metasilicate		No data available				

## Clax Profi Forte 36C1

tripotassium citrate		No data available				
potassium alkylbenzenesulphonate		No data available				
potassium hydroxide		No data available				
sodium hydroxide		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
alkyl alcohol ethoxylate			No data available					
disodium/dipotassium metasilicate			No data available					
tripotassium citrate			No data available					
potassium alkylbenzenesulphonate			No data available					
potassium hydroxide			No data available					
sodium hydroxide			No data available					

## STOT-single exposure

Ingredient(s)	Affected organ(s)
alkyl alcohol ethoxylate	No data available
disodium/dipotassium metasilicate	No data available
tripotassium citrate	No data available
potassium alkylbenzenesulphonate	No data available
potassium hydroxide	No data available
sodium hydroxide	No data available

## STOT-repeated exposure

Ingredient(s)	Affected organ(s)
alkyl alcohol ethoxylate	No data available
disodium/dipotassium metasilicate	No data available
tripotassium citrate	No data available
potassium alkylbenzenesulphonate	No data available
potassium hydroxide	No data available
sodium hydroxide	No data available

## Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3.

## Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

## 11.2 Information on other hazards

## 11.2.1 Endocrine disrupting properties

Endocrine disrupting properties - Human data, if available:

## 11.2.2 Other information

No other relevant information available.

## 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)
alkyl alcohol ethoxylate	LC <sub>50</sub>	5 - 7	Fish	92/69/EEC, C1, semi-static	96
disodium/dipotassium metasilicate		No data			

## Clax Profi Forte 36C1

		available			
tripotassium citrate		440	<i>Leuciscus idus</i>		
potassium alkylbenzenesulphonate		No data available			
potassium hydroxide	LC <sub>50</sub>	80	<i>Various species</i>	Weight of evidence	24
sodium hydroxide	LC <sub>50</sub>	35	<i>Various species</i>	Method not given	96

## Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate	EC <sub>50</sub>	5.3	<i>Daphnia</i>	92/69/EEC	48
disodium/dipotassium metasilicate		No data available			
tripotassium citrate		1535	<i>Daphnia magna Straus</i>		24
potassium alkylbenzenesulphonate		No data available			
potassium hydroxide	EC <sub>50</sub>	30 - 1000	<i>Daphnia magna Straus</i>	Weight of evidence	
sodium hydroxide	EC <sub>50</sub>	40.4	<i>Ceriodaphnia sp.</i>	Method not given	48

## Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate	EC <sub>50</sub>	1.4 - 47	<i>Not specified</i>	92/69/EEC	72
disodium/dipotassium metasilicate		No data available			
tripotassium citrate		425	<i>Scenedesmus quadricauda</i>		
potassium alkylbenzenesulphonate		No data available			
potassium hydroxide		No data available			
sodium hydroxide	EC <sub>50</sub>	22	<i>Photobacterium phosphoreum</i>	Method not given	0.25

## Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
alkyl alcohol ethoxylate		No data available			
disodium/dipotassium metasilicate		No data available			
tripotassium citrate		No data available			
potassium alkylbenzenesulphonate		No data available			
potassium hydroxide		No data available			
sodium hydroxide		No data available			

## Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
alkyl alcohol ethoxylate	EC <sub>50</sub>	> 140	<i>Bacteria</i>	DIN EN ISO 8192-OECD 209-88/302/EEC	3 hour(s)
disodium/dipotassium metasilicate		No data available			
tripotassium citrate		No data available			
potassium alkylbenzenesulphonate		No data available			
potassium hydroxide	EC <sub>50</sub>	22	<i>Photobacterium phosphoreum</i>	Method not given	15 minute(s)
sodium hydroxide		No data available			

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
---------------	----------	-------	---------	--------	----------	------------------

## Clax Profi Forte 36C1

		(mg/l)			time	
alkyl alcohol ethoxylate	EC <sub>10</sub>	8.983	<i>Not specified</i>	Method not given	21 day(s)	
disodium/dipotassium metasilicate		No data available				
tripotassium citrate		No data available				
potassium alkylbenzenesulphonate		No data available				
potassium hydroxide		No data available				
sodium hydroxide		No data available				

## Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alkyl alcohol ethoxylate	EC <sub>10</sub>	2.579	<i>Daphnia sp.</i>	Method not given	21 day(s)	
disodium/dipotassium metasilicate		No data available				
tripotassium citrate		No data available				
potassium alkylbenzenesulphonate		No data available				
potassium hydroxide		No data available				
sodium hydroxide		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
alkyl alcohol ethoxylate		No data available				
disodium/dipotassium metasilicate		No data available				
tripotassium citrate		No data available				
potassium alkylbenzenesulphonate		No data available				
potassium hydroxide		No data available				
sodium hydroxide		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
potassium hydroxide		No data available				
sodium hydroxide		No data available				

## Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
potassium hydroxide		No data available				
sodium hydroxide		No data available				

## Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
sodium hydroxide		No data available				

## Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
potassium hydroxide		No data				

## Clax Profi Forte 36C1

		available				
sodium hydroxide		No data available				

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
potassium hydroxide		No data available				
sodium hydroxide		No data available				

**12.2 Persistence and degradability****Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
potassium hydroxide	No data available			
sodium hydroxide	13 second(s)	Method not given	Rapidly photodegradable	

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
potassium hydroxide	No data available			
sodium hydroxide	No data available			

Abiotic degradation - other processes, if available:

Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark
potassium hydroxide		No data available			
sodium hydroxide		No data available			

**Biodegradation**

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
alkyl alcohol ethoxylate				OECD 301B	Readily biodegradable
disodium/dipotassium metasilicate					Not applicable (inorganic substance)
tripotassium citrate				OECD 301E	Readily biodegradable
potassium alkylbenzenesulphonate	Activated sludge, aerobe	CO <sub>2</sub> production	> 89% 89% in 29 day(s)	Weight of evidence OECD 301B	Readily biodegradable
potassium hydroxide					Not applicable (inorganic substance)
sodium hydroxide					Not applicable (inorganic substance)

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT <sub>50</sub>	Method	Evaluation
disodium/dipotassium metasilicate					Not applicable (inorganic substance)
sodium hydroxide					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT <sub>50</sub>	Method	Evaluation
disodium/dipotassium metasilicate					No data available
potassium hydroxide					No data available
sodium hydroxide					No data available

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
alkyl alcohol ethoxylate	3.11 - 4.19	Method not given	High potential for bioaccumulation	
disodium/dipotassium metasilicate	No data available			
tripotassium citrate	No data available			
potassium alkylbenzenesulphonate	No data available			
potassium hydroxide	No data available		Not relevant, does not bioaccumulate	

## Clax Profi Forte 36C1

sodium hydroxide	No data available		Not relevant, does not bioaccumulate	
------------------	-------------------	--	--------------------------------------	--

## Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
alkyl alcohol ethoxylate	< 500		Method not given	High potential for bioaccumulation	
disodium/dipotassium metasilicate	No data available				
tripotassium citrate	No data available				
potassium alkylbenzenesulphonate	No data available				
potassium hydroxide	No data available				
sodium hydroxide	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
alkyl alcohol ethoxylate	No data available				Potential for mobility in soil, soluble in water
disodium/dipotassium metasilicate	No data available				
tripotassium citrate	No data available				
potassium alkylbenzenesulphonate	No data available				
potassium hydroxide	No data available				Low potential for adsorption to soil
sodium hydroxide	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 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

## 12.7 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 15\* - alkalines.

**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 or ID number: 1719

14.2 UN proper shipping name:

Caustic alkali liquid, n.o.s. ( disodium-/dipotassium trioxosilicate , sodium-/potassium hydroxide )

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 8

14.4 Packing group: III

14.5 Environmental hazards:

Environmentally hazardous: No

Marine pollutant: No

## Clax Profi Forte 36C1

**14.6 Special precautions for user:** None known.

**14.7 Maritime transport in bulk according to IMO instruments:** The product is not transported in bulk tankers.

**Other relevant information:**

**ADR**

**Classification code:** C5

**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

**National regulations :**

- Regulation (EC) 1907/2006 - REACH (UK amended)
- Regulation (EC) 1272/2008 - CLP (UK amended)
- Regulation (EC) 648/2004 - Detergents regulation (UK amended)
- Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

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

**Ingredients according to Detergents Regulation**

soap	15 - 30 %
non-ionic surfactants	5 - 15 %
anionic surfactants, phosphonates	< 5 %
optical brighteners, perfumes , Limonene, Linalool	

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents (UK amended). Data to support this assertion are held at the disposal of the competent authorities of the UK and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**Comah - classification:** Not classified

### 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:** MS1000888

**Version:** 06.3

**Revision:** 2023-07-26

**Reason for revision:**

This data sheet contains changes from the previous version in section(s):, 1, 3, 4, 8, 9, 11, 12, 14, 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.

**Abbreviations and acronyms:**

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- ERC - Environmental release categories
- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level

**Clax Profi Forte 36C1**

- NOEL - No observed effect level
- OECD - Organisation for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- 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.
- H335 - May cause respiratory irritation.

**End of Safety Data Sheet**