

**Clax Soft 3-in-1 53A1**

Revision: 2025-05-15

Version: 01.2

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

**1.1 Product identifier**

**Trade name:** Clax Soft 3-in-1 53A1

UFI: CMFE-M0TX-D000-5UUK

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

**Product use:** Laundry conditioner.  
For professional use only.  
**Uses advised against:** Uses other than those identified are not recommended.

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

AISE\_SWED\_PW\_8b\_1

AISE\_SWED\_PW\_4\_1

**1.3 Details of the supplier of the safety data sheet**

Diversey Europe Operations BV, De Corridor 4, 3621ZB Breukelen [Maarssenbroeksedijk 2, 3542DN Utrecht], The Netherlands

**Contact details**

Diversey Ltd  
Weston Favell Centre, Northampton NN3 8PD, United Kingdom  
Tel: 01604 405311, Fax: 01604 406809  
Regulatory Email: customerservice.uk@solenis.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 corrosion, Category 1C (H314)  
Serious eye damage, Category 1 (H318)  
Chronic aquatic toxicity, Category 3 (H412)

**2.2 Label elements**



**Signal word:** Danger.

Contains phosphoric acid (Phosphoric Acid), N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride (Hydroxyethyl Laurdimonium Chloride), Hydrogen peroxide (Hydrogen Peroxide)

**Hazard statements:**

H314 - Causes severe skin burns and eye damage.  
H412 - Harmful to aquatic life with long lasting effects.

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

**2.3 Other hazards**

Do not rinse packaging before disposal. Cloths, rags, paper and similar materials contaminated with oil should be placed in water or in sealed

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metal containers!.

Reportable explosives precursor - Control of Poisons and Explosives Precursors Regulations 2015

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
phosphoric acid	231-633-2	7664-38-2	01-211948592 4-24	Skin corrosion, Category 1B (H314) Acute toxicity - Oral, Category 4 (H302) Serious eye damage, Category 1 (H318) Corrosive to metals, Category 1 (H290)		3-10
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	931-275-3	-	01-211948468 8-17	Skin corrosion, Category 1C (H314) Acute toxicity - Oral, Category 4 (H302) Specific target organ toxicity - Repeated exposure, Category 2 (H373) Serious eye damage, Category 1 (H318) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 2 (H411)		3-10
Hydrogen peroxide	231-765-0	7722-84-1	01-211948584 5-22	Oxidising liquids, Category 1 (H271) Skin corrosion, Category 1A (H314) Acute toxicity - Oral, Category 4 (H302) Acute toxicity - Inhalation, Category 4 (H332) Specific target organ toxicity - Single exposure, Category 3 (H335) Chronic aquatic toxicity, Category 3 (H412)		3-10

#### Specific concentration limits

phosphoric acid:

- Serious eye damage, Category 1 (H318) >= 25% > Eye irritation, Category 2 (H319) >= 10%
- Skin corrosion, Category 1B (H314) >= 25% > Skin irritation, Category 2 (H315) >= 10%

Hydrogen peroxide:

- Serious eye damage, Category 1 (H318) >= 8% > Eye irritation, Category 2 (H319) >= 5%
- Skin corrosion, Category 1A (H314) >= 70% > Skin corrosion, Category 1B (H314) >= 50% > Skin irritation, Category 2 (H315) >= 35%
- Specific target organ toxicity - Single exposure, Category 3 (H335) >= 35%

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

ATE, if available, are listed in section 11.

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. Wash skin with plenty of lukewarm, gently flowing water. Take off immediately all contaminated clothing and wash it before reuse. Immediately call a POISON CENTRE, doctor or physician. If skin irritation occurs: Get medical advice or attention.

#### 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

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**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. Do not allow to enter the ground/soil. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

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

Dike 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.

**Advice 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)
phosphoric acid	1 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
Hydrogen peroxide	1 ppm 1.4 mg/m <sup>3</sup>	2 ppm 2.8 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
phosphoric acid	-	-	-	0.1

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N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	-	-	-	0.9
Hydrogen peroxide	-	-	-	-

## 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)
phosphoric acid	No data available	-	No data available	-
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	-	-	-	1.25
Hydrogen peroxide	-	-	-	-

## 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)
phosphoric acid	No data available	-	No data available	-
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	-	-	0.02 %	0.9
Hydrogen peroxide	-	-	-	-

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
phosphoric acid	-	-	2.92	1
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	-	-	-	2.2
Hydrogen peroxide	3	-	1.4	-

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
phosphoric acid	-	-	0.73	-
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	-	-	-	3.1
Hydrogen peroxide	1.93	-	0.21	-

## 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)
phosphoric acid	-	-	-	-
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	0.004	0.0004	0.0014	0.19
Hydrogen peroxide	0.0126	0.0126	0.0138	4.66

## Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m <sup>3</sup> )
phosphoric acid	-	-	-	-
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	4.8	0.48	0.61	-
Hydrogen peroxide	0.047	0.047	0.0023	-

## 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:

**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
Automatic transfer and dilution	AISE_SWED_PW_8b_1	PW	PROC 8b	60	ERC8b

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**Personal protective equipment****Eye / face protection:**

Safety glasses or goggles (EN 16321). 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):** 0.33

**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 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**

**Physical state:** Liquid

**Colour:** Opaque , White

**Odour:** Product specific

**Odour threshold:** Not applicable

**Melting point/freezing point (°C):** Not determined

Not relevant to classification of this product

**Initial boiling point and boiling range (°C):** Not determined

See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
phosphoric acid	158	Method not given	1013
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	No data available		
Hydrogen peroxide	150.2	Method not given	

**Method / remark**

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

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

**Flash point (°C):** Not applicable.

**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:** Not applicable.

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**pH:**  $\leq 2$  (neat)  
**Dilution pH:**  $< 2$  (0.33 %)  
**Kinematic viscosity:** Not determined  
**Solubility in / Miscibility with water:** Fully miscible

ISO 4316  
 ISO 4316

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
phosphoric acid	Soluble		
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	No data available		
Hydrogen peroxide	1000	Method not given	20

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

**Vapour pressure:** Not determined

**Method / remark**  
 See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
phosphoric acid	4	Method not given	20
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	No data available		
Hydrogen peroxide	214	Method not given	20

**Relative density:**  $\approx 1.06$  (20 °C)  
**Relative vapour density:** No data available.  
**Particle characteristics:** No data available.

**Method / remark**  
 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:** Not corrosive

### 9.2.2 Other safety characteristics

No other relevant information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

### 10.2 Chemical stability

Stable under normal storage and use conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

### 10.4 Conditions to avoid

None known under normal storage and use conditions.

### 10.5 Incompatible materials

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

### 10.6 Hazardous decomposition products

None known under normal storage and use conditions.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Mixture data: .

#### Relevant calculated ATE(s):

ATE - Oral (mg/kg):  $>2000$   
 ATE - Inhalatory, mists (mg/l):  $>5$   
 ATE - Inhalatory, vapours (mg/l):  $>20$

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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 Oral (mg/kg)
phosphoric acid	LD <sub>50</sub>	> 300-5000	Rat	OECD 423 (EU B.1 tris)		2600
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	LD <sub>50</sub>	1000		OECD 401 (EU B.1)		11000
Hydrogen peroxide	LD <sub>50</sub>	> 300-2000	Rat	Weight of evidence		15000

## Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Dermal (mg/kg)
phosphoric acid	LD <sub>50</sub>	2740	Rabbit	Method not given		Not established
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride		No data available				Not established
Hydrogen peroxide	LD <sub>50</sub>	> 2000	Rabbit	Substance was tested as 35 % aqueous solution		Not established

## Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
phosphoric acid	LC <sub>50</sub>	850	Rat	Method not given	2
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride		No data available			
Hydrogen peroxide	LC <sub>0</sub>	No mortality observed (vapour)	Rat	Method not given	4

## 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)
phosphoric acid	Not established	Not established	Not established	Not established
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	Not established	Not established	Not established	Not established
Hydrogen peroxide	Not established	47	11	Not established

**Irritation and corrosivity**

## Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
phosphoric acid	Corrosive	Rabbit	OECD 404 (EU B.4)	
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	No data available			
Hydrogen peroxide	Corrosive	Rabbit	Method not given	

## Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
phosphoric acid	Severe damage	Rabbit	Method not given	
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	No data available			
Hydrogen peroxide	Corrosive	Rabbit	Method not given	

## Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
phosphoric acid	No data available			
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	No data available			
Hydrogen peroxide	Irritating to respiratory tract		Method not given	

**Sensitisation**

## Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
phosphoric acid	Not sensitising	Human	Human experience	
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	No data available			
Hydrogen peroxide	Not sensitising	Guinea pig	Method not given	

## Sensitisation by inhalation

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Ingredient(s)	Result	Species	Method	Exposure time
phosphoric acid	No data available			
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	No data available			
Hydrogen peroxide	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)
phosphoric acid	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 473 OECD 476 (Mouse lymphoma)	No data available	
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	No data available		No data available	
Hydrogen peroxide	No evidence for mutagenicity	OECD 471 (EU B.12/13)	No evidence of genotoxicity, negative test results	Method not given

## Carcinogenicity

Ingredient(s)	Effect
phosphoric acid	No data available
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	No data available
Hydrogen peroxide	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
phosphoric acid	NOAEL	Developmental toxicity	410	Rat	OECD 422, oral	10 day(s)	No evidence for reproductive toxicity No evidence for developmental toxicity
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride			No data available				
Hydrogen peroxide			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
phosphoric acid	NOAEL	250	Rat	OECD 422, oral		
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride		No data available				
Hydrogen peroxide	NOAEL	100	Mouse	OECD 408 (EU B.26)	90	

## Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
phosphoric acid		No data available				
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride		No data available				
Hydrogen peroxide		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
phosphoric acid		No data available				
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride		No data available				
Hydrogen peroxide	NOAEL	7	Mouse	OECD 413 (EU B.29)	28	

## Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
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phosphoric acid			No data available					
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride			No data available					
Hydrogen peroxide			No data available					

## STOT-single exposure

Ingredient(s)	Affected organ(s)
phosphoric acid	No data available
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	No data available
Hydrogen peroxide	No data available

## STOT-repeated exposure

Ingredient(s)	Affected organ(s)
phosphoric acid	No data available
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	Gastrointestinal tract
Hydrogen peroxide	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)
phosphoric acid	LC <sub>50</sub>	138	<i>Gambusia affinis</i>	Method not given	96
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	LC <sub>50</sub>	4.2	<i>Brachydanio rerio</i>	OECD 203, semi-static	96
Hydrogen peroxide	LC <sub>50</sub>	16.4	<i>Pimephales promelas</i>	EPA-OPPTS 850.1075	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
phosphoric acid	EC <sub>50</sub>	> 100	<i>Daphnia magna</i> Straus	OECD 202 (EU C.2)	48
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	EC <sub>50</sub>	0.19	<i>Daphnia magna</i> Straus	OECD 202, semi-static	48
Hydrogen peroxide	EC <sub>50</sub>	2.4	<i>Daphnia pulex</i>	Method not given	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
phosphoric acid	EC <sub>50</sub>	> 100	<i>Desmodesmus subspicatus</i>	OECD 201 (EU C.3)	72
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	E <sub>r</sub> C <sub>50</sub>	0.14	<i>Desmodesmus subspicatus</i>	OECD 201, static	72
Hydrogen peroxide	EC <sub>50</sub>	1.38	<i>Skeletonema</i>	OECD 201 (EU C.3)	72

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			<i>costatum</i> (marine)		
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## Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
phosphoric acid		No data available			
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride		No data available			
Hydrogen peroxide	ErC <sub>50</sub>	1.38	<i>Skeletonema costatum</i>	Method not given	72

## Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
phosphoric acid	EC <sub>50</sub>	270	<i>Activated sludge</i>	Method not given	
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride		No data available			
Hydrogen peroxide	EC <sub>50</sub>	466	<i>Activated sludge</i>	Method not given	

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
phosphoric acid		No data available				
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride		No data available				
Hydrogen peroxide	NOEC	4.3	<i>Pimephales promelas</i>	Method not given	96 hour(s)	

## Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
phosphoric acid		No data available				
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride		No data available				
Hydrogen peroxide	NOEC	0.63	<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
phosphoric acid		No data available				
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride		No data available				
Hydrogen peroxide		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
phosphoric acid		No data available				
Hydrogen peroxide		No data available				

## Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
phosphoric acid		No data available				
Hydrogen peroxide		No data available				

## Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
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					time (days)	
phosphoric acid		No data available				
Hydrogen peroxide		No data available				

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
phosphoric acid		No data available				
Hydrogen peroxide		No data available				

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
phosphoric acid		No data available				
Hydrogen peroxide		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
phosphoric acid	No data available			
Hydrogen peroxide	24 hour(s)	Method not given	OH radical	

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
phosphoric acid	No data available			
Hydrogen peroxide	No data available			

Abiotic degradation - other processes, if available:

Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark
phosphoric acid		No data available			
Hydrogen peroxide		No data available			

**Biodegradation**

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
phosphoric acid					Not applicable (inorganic substance)
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	Activated sludge, aerobe	CO <sub>2</sub> production	87% in 28 day(s)	OECD 301B	Readily biodegradable
Hydrogen peroxide	Activated sludge, aerobe	Specific analysis (primary degradation)	> 50 % in < 1 day(s)		Not applicable (inorganic substance)

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT <sub>50</sub>	Method	Evaluation
phosphoric acid					No data available
Hydrogen peroxide					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT <sub>50</sub>	Method	Evaluation
phosphoric acid					No data available
Hydrogen peroxide					No data available

**12.3 Bioaccumulative potential**Partition coefficient n-octanol/water (log K<sub>ow</sub>)

Ingredient(s)	Value	Method	Evaluation	Remark
phosphoric acid	No data available		No bioaccumulation expected	
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even	No data available			

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numbered)-1-aminium chloride				
Hydrogen peroxide	-1.57		No bioaccumulation expected	

## Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
phosphoric acid	No data available			No bioaccumulation expected	
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	No data available				
Hydrogen peroxide	1.4		QSAR	Low potential for bioaccumulation	

## 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
phosphoric acid	No data available				Potential for mobility in soil, soluble in water
N-(2-hydroxyethyl)-N,N-dimethyl alkyl-C12-14-(even numbered)-1-aminium chloride	No data available				
Hydrogen peroxide	2				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 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 or ID number: 1760

14.2 UN proper shipping name:

Corrosive liquid, n.o.s. ( phosphoric acid , alkyl hydroxyethyl dimethylammoniumchloride )

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

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

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Classification code: C9

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
- Control of Poisons and Explosives Precursors Regulations 2015

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

#### Ingredients according to Detergents Regulation

cationic surfactants, oxygen-based bleaching agents  
perfumes, Coumarin, Alpha-Isomethyl Ionone

&lt; 5 %

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: MS1004154

Version: 01.2

Revision: 2025-05-15

#### Reason for revision:

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

#### 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
- 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
- H271 - May cause fire or explosion; strong oxidiser.
- H290 - May be corrosive to metals.

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- H302 - Harmful if swallowed.
- H314 - Causes severe skin burns and eye damage.
- H318 - Causes serious eye damage.
- H332 - Harmful if inhaled.
- H335 - May cause respiratory irritation.
- H373 - May cause damage to organs through prolonged or repeated exposure.
- H400 - Very toxic to aquatic life.
- H411 - Toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.

**End of Safety Data Sheet**