

## Lysoform Professionale Original Plus

Revision: 2025-02-27

Version: 01.0

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

#### 1.1 Product identifier

**Trade name:** Lysoform Professionale Original Plus

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UFI: 7EKJ-F18D-Q004-56YS

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

**Product use:**

Hard surface cleaner.  
Kitchen surface cleaner.  
Restroom/bathroom cleaner.  
for general surface disinfection  
for food contact surface disinfection  
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\_19\_1

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

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

#### Contact details

Diversey S.P.A.

Strada Statale 235, 26010 Bagnolo Cremasco (CR)

Tel: (+39) 0373 2051, E-mail: info.italy@solenis.com

#### 1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible).

Bergamo - CAV Azienda Ospedaliera Papa Giovanni XXIII, Tel. 800.88.33.00

Firenze - CAV Azienda Ospedaliera "Careggi" U.O. Tossicologia Medica, Tel. (+39) 055.794.7819

Foggia - CAV "Azienda Ospedaliera Università di Foggia", Tel. 800.183.459

Milano - CAV Ospedale Niguarda, Tel. (+39) 02.66.1010.29

Napoli - CAV "Azienda Ospedaliera A. Cardarelli", Tel. (+39) 081.545.3333

Pavia - CAV Centro Nazionale di Informazione Tossicologica, Tel. (+39) 0382.24.444

Roma - CAV "Ospedale Pediatrico Bambino Gesù", Tel. (+39) 06.6859.3726

Roma - CAV Policlinico "A. Gemelli", Tel. (+39) 06.305.4343

Roma - CAV Policlinico "Umberto I", Tel. (+39) 06.4997.8000

Verona - CAV Centro antiveneni Veneto, Tel. 800.011.858.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Skin irritation, Category 2 (H315)

Serious eye damage, Category 1 (H318)

Chronic aquatic toxicity, Category 3 (H412)

Corrosive to metals, Category 1 (H290)

#### 2.2 Label elements



**Signal word:** Danger.

Contains alkyl (C12-16) dimethylbenzyl ammonium chloride (Benzalkonium Chloride), alkyl alcohol ethoxylate (Trideceth 7-10)

#### Hazard statements:

H290 - May be corrosive to metals.

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H315 - Causes skin irritation.  
 H318 - Causes serious eye damage.  
 H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements:**

P280 - Wear eye or face protection.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 - Immediately call a POISON CENTRE, doctor or physician.

**2.3 Other hazards**

No other hazards known.

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

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
alkyl (C12-16) dimethylbenzyl ammonium chloride	270-325-2	68424-85-1	[6]	Skin corrosion, Category 1B (H314) Acute toxicity - Oral, Category 4 (H302) Serious eye damage, Category 1 (H318) Acute aquatic toxicity, Category 1 M=10 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410)		1-3
trisodium citrate	200-675-3	68-04-2	[1]	Not classified as hazardous		1-3
alkyl alcohol ethoxylate	[4]	69011-36-5	[4]	Acute toxicity - Oral, Category 4 (H302) Serious eye damage, Category 1 (H318)		1-3

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.

[6] Exempted: biocidal active. See Article 15(2) 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**

**Inhalation:** Get medical attention or advice if you feel unwell.  
**Skin contact:** Wash skin with plenty of lukewarm, gently flowing water. 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. 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 or permanent damage.  
**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**

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**6.1 Personal precautions, protective equipment and emergency procedures**

Wear eye/face protection. Repeated or prolonged contact: 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**

Dyke to collect large liquid spills. 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 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. Keep from freezing. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

**7.3 Specific end use(s)**

No specific advice for end use available.

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

Air limit values, if available:

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 (C12-16) dimethylbenzyl ammonium chloride	-	-	-	3.4
trisodium citrate	-	-	-	-
alkyl alcohol ethoxylate	-	-	-	-

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 (C12-16) dimethylbenzyl ammonium chloride	-	-	-	5.7
trisodium citrate	No data available	-	No data available	-
alkyl alcohol ethoxylate	-	-	-	-

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)

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alkyl (C12-16) dimethylbenzyl ammonium chloride	-	-	-	3.4
trisodium citrate	No data available	-	No data available	-
alkyl alcohol ethoxylate	-	-	-	-

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 (C12-16) dimethylbenzyl ammonium chloride	-	-	-	3.96
trisodium citrate	-	-	-	-
alkyl alcohol ethoxylate	-	-	-	-

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 (C12-16) dimethylbenzyl ammonium chloride	-	-	-	1.64
trisodium citrate	-	-	-	-
alkyl alcohol ethoxylate	-	-	-	-

## 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 (C12-16) dimethylbenzyl ammonium chloride	0.0009	0.00096	-	0.4
trisodium citrate	0.44	0.044	-	1000
alkyl alcohol ethoxylate	-	-	-	-

## Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m <sup>3</sup> )
alkyl (C12-16) dimethylbenzyl ammonium chloride	12.27	13.09	7	-
trisodium citrate	34.6	3.46	33.1	-
alkyl alcohol ethoxylate	-	-	-	-

## 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
Manual transfer and dilution	AISE_SWED_PW_8a_1	PW	PROC 8a	60	ERC8a

## Personal protective equipment

## Eye / face protection:

Safety glasses or goggles (EN 16321).

## Hand protection:

Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.

Repeated or prolonged contact: 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:

Should not reach sewage water or drainage ditch undiluted or unneutralised.

Recommended safety measures for handling the diluted product:

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Recommended maximum concentration (% w/w): 5

**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
Manual application	AISE_SWED_PW_19_1	PW	PROC 19	480	ERC8a

**Personal protective equipment**

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

**Hand protection:** Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.

**Body protection:** No special requirements under normal use conditions.

**Respiratory protection:** No special requirements under normal use conditions.

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

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Information in this section refers to the product, unless it is specifically stated that substance data is listed

	Method / remark
<b>Physical state:</b> Liquid	
<b>Colour:</b> Clear , Colourless	
<b>Odour:</b> Odourless	
<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

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
alkyl (C12-16) dimethylbenzyl ammonium chloride	Product decomposes before boiling		
trisodium citrate	No data available		
alkyl alcohol ethoxylate	> 200	Method not given	

	Method / remark
<b>Flammability (solid, gas):</b> Not applicable to liquids	
<b>Flammability (liquid):</b> Not flammable.	
<b>Flash point (°C):</b> Not determined	
<b>Sustained combustion:</b> Not applicable. ( UN Manual of Tests and Criteria, section 32, L.2 )	
<b>Lower and upper explosion limit/flammability limit (%):</b> Not determined	

Substance data, flammability or explosive limits, if available:

	Method / remark
<b>Autoignition temperature:</b> Not determined	
<b>Decomposition temperature:</b> Not applicable.	
<b>pH:</b> ≈ 11 (neat)	ISO 4316
<b>Dilution pH:</b> ≈ 10 (5 %)	ISO 4316
<b>Kinematic viscosity:</b> Not determined	
<b>Solubility in / Miscibility with water:</b> Fully miscible	

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
alkyl (C12-16) dimethylbenzyl ammonium chloride	Soluble	OECD 105 (EU A.6)	10
trisodium citrate	No data available		
alkyl alcohol ethoxylate	Soluble	Method not given	20

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

	Method / remark
<b>Vapour pressure:</b> Not determined	See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
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alkyl (C12-16) dimethylbenzyl ammonium chloride	0.006	OECD 104 (EU A.4)	25
trisodium citrate	No data available		
alkyl alcohol ethoxylate	Negligible	Method not given	20-25

**Method / remark**

**Relative density:** Not determined  
**Relative vapour density:** No data available.  
**Particle characteristics:** No data available.

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

UN Manual of Tests and Criteria, section 37

**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**

May be corrosive to metals.

**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 Oral (mg/kg)
alkyl (C12-16) dimethylbenzyl ammonium chloride	LD <sub>50</sub>	> 300-2000	Rat	OECD 401 (EU B.1)		Not established
trisodium citrate	LD <sub>50</sub>	5400		OECD 401 (EU B.1)		Not established
alkyl alcohol ethoxylate	LD <sub>50</sub>	> 300-2000	Rat	OECD 423 (EU B.1 tris)		Not established

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Dermal (mg/kg)
alkyl (C12-16) dimethylbenzyl ammonium chloride		No data available				Not established
trisodium citrate		No data available				Not established
alkyl alcohol ethoxylate	LD <sub>50</sub>	> 2000	Rabbit	Method not given		Not established

Acute inhalative toxicity

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Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl (C12-16) dimethylbenzyl ammonium chloride		No data available			
trisodium citrate		No data available			
alkyl alcohol ethoxylate		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 (C12-16) dimethylbenzyl ammonium chloride	Not established	Not established	Not established	Not established
trisodium citrate	Not established	Not established	Not established	Not established
alkyl alcohol ethoxylate	Not established	Not established	Not established	Not established

## Irritation and corrosivity

## Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl (C12-16) dimethylbenzyl ammonium chloride	Corrosive	Rabbit		
trisodium citrate	No data available			
alkyl alcohol ethoxylate	Not irritant	Rabbit	OECD 404 (EU B.4)	

## Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl (C12-16) dimethylbenzyl ammonium chloride	Severe damage	Rabbit		
trisodium citrate	No data available			
alkyl alcohol ethoxylate	Severe damage	Rabbit	Method not given	

## Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl (C12-16) dimethylbenzyl ammonium chloride	No data available			
trisodium citrate	No data available			
alkyl alcohol ethoxylate	No data available			

## Sensitisation

## Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
alkyl (C12-16) dimethylbenzyl ammonium chloride	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
trisodium citrate	No data available			
alkyl alcohol ethoxylate	Not sensitising	Guinea pig	Method not given	

## Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
alkyl (C12-16) dimethylbenzyl ammonium chloride	No data available			
trisodium citrate	No data available			
alkyl alcohol ethoxylate	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 (C12-16) dimethylbenzyl ammonium chloride	No data available		No data available	
trisodium citrate	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

## Carcinogenicity

Ingredient(s)	Effect
alkyl (C12-16) dimethylbenzyl ammonium chloride	No data available
trisodium citrate	No data available
alkyl alcohol ethoxylate	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 (C12-16)			No data				

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dimethylbenzyl ammonium chloride			available				
trisodium citrate			No data available				
alkyl alcohol ethoxylate	NOAEL	Teratogenic effects	> 50	Rat	Not known		No known significant effects or critical hazards

**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 (C12-16) dimethylbenzyl ammonium chloride		No data available				
trisodium citrate		No data available				
alkyl alcohol ethoxylate		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 (C12-16) dimethylbenzyl ammonium chloride		No data available				
trisodium citrate		No data available				
alkyl alcohol ethoxylate		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 (C12-16) dimethylbenzyl ammonium chloride		No data available				
trisodium citrate		No data available				
alkyl alcohol ethoxylate		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 (C12-16) dimethylbenzyl ammonium chloride			No data available					
trisodium citrate			No data available					
alkyl alcohol ethoxylate	Oral	NOAEL	50	Rat	Method not given	24 month(s)	Effects on organ weights	

STOT-single exposure

Ingredient(s)	Affected organ(s)
alkyl (C12-16) dimethylbenzyl ammonium chloride	No data available
trisodium citrate	No data available
alkyl alcohol ethoxylate	Not applicable

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
alkyl (C12-16) dimethylbenzyl ammonium chloride	No data available
trisodium citrate	No data available
alkyl alcohol ethoxylate	Not applicable

**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 (C12-16) dimethylbenzyl ammonium chloride	LC <sub>50</sub>	> 0.1-1	<i>Lepomis macrochirus</i>	OPP 72-1, static (EPA)	96
trisodium citrate	LC <sub>50</sub>	10		Weight of evidence	
alkyl alcohol ethoxylate	LC <sub>50</sub>	> 1 - 10	<i>Cyprinus carpio</i>	OECD 203 (EU C.1)	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl (C12-16) dimethylbenzyl ammonium chloride	EC <sub>50</sub>	> 0.01-0.1	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48
trisodium citrate	EC <sub>50</sub>	> 50		Weight of evidence	
alkyl alcohol ethoxylate	EC <sub>50</sub>	1 - 10	<i>Daphnia magna Straus</i>	OECD 202, static	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl (C12-16) dimethylbenzyl ammonium chloride	EC <sub>50</sub>	> 0.01-0.1	<i>Pseudokirchneriella subcapitata</i>	OECD 201 (EU C.3)	72
trisodium citrate	EC <sub>50</sub>	425		Weight of evidence	
alkyl alcohol ethoxylate	EC <sub>50</sub>	1 - 10	<i>Desmodesmus subspicatus</i>	OECD 201, static	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
alkyl (C12-16) dimethylbenzyl ammonium chloride		No data available			
trisodium citrate		No data available			
alkyl alcohol ethoxylate		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
alkyl (C12-16) dimethylbenzyl ammonium chloride		No data available			
trisodium citrate		No data available			
alkyl alcohol ethoxylate	EC <sub>10</sub>	> 10000	<i>Activated sludge</i>	DIN 38412 / Part 8	17 hour(s)

**Aquatic long-term toxicity**

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alkyl (C12-16) dimethylbenzyl ammonium chloride		No data available				
trisodium citrate		No data available				
alkyl alcohol ethoxylate		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alkyl (C12-16) dimethylbenzyl ammonium chloride	NOEC	> 0.01-0.1	<i>Daphnia magna</i>	OECD 211	21 day(s)	
trisodium citrate		No data available				

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alkyl alcohol ethoxylate		No data available				
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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 (C12-16) dimethylbenzyl ammonium chloride		No data available				
trisodium citrate		No data available				
alkyl alcohol ethoxylate		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
alkyl alcohol ethoxylate	NOEC	220	<i>Eisenia fetida</i>			

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
alkyl alcohol ethoxylate	NOEC	10	<i>Lepidium sativum</i>	OECD 208		

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

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

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

**Biodegradation**

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
alkyl (C12-16) dimethylbenzyl ammonium chloride	Activated sludge, aerobe	Oxygen depletion	63% in 28 day(s)	OECD 301D	Readily biodegradable
trisodium citrate		DOC reduction	97 % in 28 day(s)	OECD 301E	Readily biodegradable
alkyl alcohol ethoxylate	Activated sludge, aerobe	CO <sub>2</sub> production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
alkyl (C12-16) dimethylbenzyl ammonium chloride	< 3	OECD 107	No bioaccumulation expected	at 20 °C
trisodium citrate	< 0		No bioaccumulation expected	
alkyl alcohol ethoxylate	4.09	QSAR	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
alkyl (C12-16) dimethylbenzyl ammonium chloride	No data available				

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trisodium citrate	3.2			No bioaccumulation expected	
alkyl alcohol ethoxylate	-			No bioaccumulation expected	

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
alkyl (C12-16) dimethylbenzyl ammonium chloride	No data available				
trisodium citrate	No data available				
alkyl alcohol ethoxylate	No data available				Immobile in soil or sediment

**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:**

16 03 03\* - inorganic wastes 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 or ID number:** 3267**14.2 UN proper shipping name:**

Corrosive liquid, basic, organic, n.o.s. ( trisodium citrate )

Corrosive liquid, basic, organic, n.o.s. ( trisodium citrate )

**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****Classification code:** C7**Tunnel restriction code:** (E)**Hazard identification number:** 80**IMO/IMDG****EmS:** F-A, S-B

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

## SECTION 15: Regulatory information

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

#### EU regulations:

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP
- Regulation (EC) No. 648/2004 - Detergents regulation
- Regulation (EU) No 528/2012 on biocidal products
- substances identified as having endocrine disrupting properties in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605
- 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 EC Detergents Regulation 648/2004

non-ionic surfactants < 5 %  
 perfumes , disinfectants

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**Seveso - 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*

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#### 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
- H290 - May be corrosive to metals.
- H302 - Harmful if swallowed.
- H314 - Causes severe skin burns and eye damage.
- H318 - Causes serious eye damage.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.

**End of Safety Data Sheet**