



**Revision:** 2022-08-28 **Version:** 01.0

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

1.1 Product identifier

Trade name: Clax Soft 2-in-1 53B1

UFI: KTWH-Y1M4-600C-D949

#### 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\_2 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, 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@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

Eye Irrit. 2 (H319)

#### 2.2 Label elements



Signal word: Warning.

#### Hazard statements:

H319 - Causes serious eye irritation.

#### 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
citric acid	201-069-1	-	01-2119457026-42	STOT SE 3 (H335)		3-10

		Eve Irrit. 2 (H319)	l
		Lyc 1111. 2 (11010)	1

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

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. Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If irritation occurs and persists, get medical attention.

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:No known effects or symptoms in normal use.Eye contact:Causes severe irritation.

**Ingestion:** No known effects or symptoms in normal use.

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

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

# SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

#### 5.2 Special hazards arising from the substance or mixture

No special hazards known.

# 5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

#### SECTION 6: Accidental release measures

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

No special measures required.

#### 6.2 Environmental precautions

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. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). 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 adviced by Diversey. Wash hands before breaks and at the end of workday. Avoid contact with 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:

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
citric acid	-	-	-	-

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)
citric acid	No data available	-	No data available	-

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)
citric acid	No data available	-	No data available	-

DNEL/DMEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
citric acid	_	_	_	_

DNEL/DMEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
citric acid	-	-	-	-

# **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)
citric acid	0.44	0.044	-	> 1000

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
citric acid	34.6	3.46	33.1	-

## 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 <u>undiluted</u> product:

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

Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

REACH use scenarios considered for the undiluted product:

SWED - Sector-specific	LCS	PROC	Duration	ERC

	worker exposure			(min)	
	description				
Automatic transfer and dilution	AISE_SWED_PW_8b_2	PW	PROC 8b	60	ERC8b

Personal protective equipment

Eye / face protection: Safety glasses are not normally required. However, their use is recommended in those cases where

splashes may occur when handling the product (EN 166).

Hand protection: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.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (% w/w): 0.26

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:

NEADIT use section to considered for the unuted pro	ALAON use section to sometime unuted product.									
	SWED	LCS	PROC	Duration	ERC					
				(min)						
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	FRC8a					

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 , Blue

Odour: Floral

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	Method	Atmospheric pressure (hPa)
Į.		( )		(nPa)
	citric acid	No data available		

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.

**pH:** =< 2 (neat) ISO 4316 **Dilution pH:** ≈ 4 (0.26 %) ISO 4316

Kinematic viscosity: ≈ 20 mPa.s (20 °C) Solubility in / Miscibility with water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
citric acid	1630	Method not given	

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)
citric acid	No data available		

Method / remark

OECD 109 (EU A.3)

Not relevant to classification of this product

Not applicable to liquids.

Relative density: ≈ 1.03 (20 °C)

Relative vapour density: No data available. Particle characteristics: No data available.

#### 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

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

### 10.6 Hazardous decomposition products

None known under normal storage and use conditions.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Mixture data:.

#### Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000

Substance data, where relevant and available, are listed below:.

#### Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
citric acid	LD 50	5400-11700	Rat	Method not given		Not established

Acute dermal toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	ATE
	-	(mg/kg)			time (h)	(mg/kg)

	citric acid			LD 50	> 200	0	Rat	Metho	d not given			Not establishe
cute inhalative toxicity												
cute initialative toxicity		dient(s)			Endp		alue	Speci	es	Method	i	Exposure
	citri-	c acid					ng/l) o data					time (h)
						ava	ailable					
cute inhalative toxicity,	continued											
	Ingredient(s)	)		ATE - i	inhalation, du				TE - inhalati			halation, ga
	citric acid			No	(mg/l) t established		<b>mg/l)</b> stablished		vapour (mg/ Not establish			(mg/l) established
ritation and corros						,				•		
KIII IIIItation and comos	Ingred	dient(s)				Result	Spec		Metho		Ex	oosure time
	citri	c acid			N	ot irritant	Rab	bit	OECD 404 (	EU B.4)		
vo irritation and correc	sis des											
ye irritation and corros	Ingred	dient(s)				Result	Spec	-	Metho		Ex	oosure time
	citri	c acid				Irritant	Rat	bit	OECD 405 (	EU B.5)		
tespiratory tract irritatio		dient(s)				Result	Spec	ies	Metho	<u>d</u>	Ex	oosure time
	citri	c acid			No da	ata available						
ensitisation												
ensitisation by skin cor		dient(s)				Result	Spec	ies	Metho	d	Expo	sure time (h
	citri	c acid			Not	sensitising	Guine	a pig	Method no	t given		
ensitisation by inhalation		dient(s)				Result	Spec	ies	Metho	d	Ex	oosure time
	citri	c acid			No da	ata available						
CMR effects (carcin lutagenicity		utageni			•							
Ingred	dient(s)		Re	sult (in-v	ritro)	Metho (in-viti		F	lesult (in-viv	ro)		Method (in-vivo)
citric	c acid		No data availa	ble				o evidence of genotoxicity, negativest results			ive	Method not given
							1001	roound			<u> </u>	givoii
arcinogenicity					<b>I</b>							
		edient(s) ic acid			Effec	:t						
							arcinogeni	city, nega	tive test resu	ılts		
							arcinogeni	city, nega	tive test resu	ılts		
			2		No e	vidence for c						- 41
oxicity for reproduction Ingredient(s)	Endpoint	5	Specific effect				arcinogeni		exposure		s and	
		S	Specific effect	(	Value mg/kg bw/d) No data	vidence for c			exposure time	Remarks	repor	
Ingredient(s)		S	Specific effect	(	Value	vidence for c			exposure time	Remark	repor	ted
Ingredient(s) citric acid	Endpoint	\$	Specific effect	(	Value mg/kg bw/d) No data	vidence for c			exposure time	Remarks	repor	ted
citric acid  cepeated dose toxioub-acute or sub-chronic	city ic oral toxicity	\$			Value mg/kg bw/d) No data	vidence for c	Metho		ixposure time	Remarks lo evidenoxicity	repor ce for	ted reproductive
citric acid  cepeated dose toxi ub-acute or sub-chroni	Endpoint  City ic oral toxicity gredient(s)	\$	Specific effect	oint	Value mg/kg bw/d) No data available  Value ng/kg bw/d)	vidence for c	Metho	od E	exposure time	Remarks lo evidenoxicity	repor ce for	ted reproductive
citric acid  cepeated dose toxi ub-acute or sub-chroni	city ic oral toxicity	\$		oint	Value mg/kg bw/d) No data available Value	vidence for c	Metho	od E	Exposure time to	Remarks lo evidenoxicity	repor	ted reproductive
citric acid  Cepeated dose toxicub-acute or sub-chronicular	Endpoint  City ic oral toxicity gredient(s)	\$		oint	Value mg/kg bw/d) No data available  Value ng/kg bw/d) No data	vidence for c	Metho	od E	Exposure time to	Remarks lo evidenoxicity	repor	ted reproductive
citric acid  Repeated dose toxi ub-acute or sub-chroni In	city ic oral toxicity gredient(s) citric acid	\$	Endp	oint (n	Value mg/kg bw/d) No data available  Value mg/kg bw/d) No data available	Species Species	Meth	od E	Exposure time to	Remark: lo evidenoxicity  Specific	repor ce for l	ted reproductive ts and organ
citric acid  Repeated dose toxi ub-acute or sub-chroni In	city ic oral toxicity gredient(s) citric acid	\$		oint (n	Value mg/kg bw/d) No data available  Value mg/kg bw/d) No data available  Value mg/kg bw/d) Value mg/kg bw/d)	vidence for c	Meth	od E	Exposure time to	Remark: lo evidenoxicity  Specific	repor ce for l	ts and organ
citric acid  Repeated dose toxicub-acute or sub-chronic dermal toxicub-chronic dermal toxic	city ic oral toxicity gredient(s) citric acid	\$	Endp	oint (n	Value mg/kg bw/d) No data available  Value mg/kg bw/d) No data available	Species Species	Meth	od E	Exposure time   No.   No	Remark: lo evidenoxicity  Specific	repor ce for	ted reproductive ts and organited
citric acid  Repeated dose toxi ub-acute or sub-chroni In	city ic oral toxicity gredient(s) citric acid	\$	Endp	oint (n	Value mg/kg bw/d) No data available  Value mg/kg bw/d) No data available  Value mg/kg bw/d) No data available	Species Species	Meth	od E	Exposure time   No.   No	Remark: lo evidenoxicity  Specific	repor ce for	ts and organ
citric acid  Repeated dose toxi sub-acute or sub-chroni In  Sub-chronic dermal toxi In  Sub-chronic inhalation to	city ic oral toxicity gredient(s) citric acid icity gredient(s) citric acid	\$	Endp	oint (n	Value mg/kg bw/d) No data available  Value mg/kg bw/d) No data available  Value mg/kg bw/d) No data available	Species Species	Methodological Method	thod E	Exposure time   No.   No	Remark: lo evidenoxicity  Specific	effect	ted reproductive ts and organited ts and organited
citric acid  Repeated dose toxi ub-acute or sub-chroni In  ub-chronic dermal toxi In  ub-chronic inhalation to	city ic oral toxicity gredient(s) citric acid icity gredient(s) citric acid	\$	Endp	oint (n	Value mg/kg bw/d) No data available  Value mg/kg bw/d) No data available  Value mg/kg bw/d) No data available	Species Species	Methodological Method	od E	Exposure time   No.   No	Remark: lo evidenoxicity  Specific	effect	ts and organ ts and organ ts and organ tted

	available		

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
citric acid			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
citric acid	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
citric acid	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 - lish					
Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
citric acid	LC 50	440	Leuciscus idus	Method not given	48

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
citric acid	EC 50	1535	Daphnia magna Straus	Method not given	24

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
citric acid	LC 50	425	Scenedesmus	Method not given	168
			quadricauda		

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
citric acid		No data available			

Impact on sewage plants - toxicity to bacteria

impact on sewage plants - toxicity to bacteria					
Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
citric acid	EC 50	> 10000	Pseudomonas putida	Method not given	16 hour(s)

**Aquatic long-term toxicity** 

Aquatic long-term toxicity - fish						
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed

		(mg/l)			time	
citric acid		No data available				
	<u> </u>	avaliable				
atic long-term toxicity - crustacea						
Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
citric acid		No data available				
atic toxicity to other aquatic benthic organ					1	
Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
citric acid		No data available				
	<u> </u>	available	l.	l	<u> </u>	
restrial toxicity estrial toxicity - soil invertebrates, includio	ng carthworms, if available	0.				
Ingredient(s)	Endpoint	e. Value	Species	Method	Exposure	Effects observed
		(mg/kg dw soil)	1, 1, 1, 1, 1		time (days)	
citric acid		No data				
		available				
restrial toxicity - plants, if available:						
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
•		(mg/kg dw			time (days)	
		soil)				
citric acid		No data available				
citric acid		No data				
restrial toxicity - birds, if available:	Fadadat	No data available	Constitution	Mathad		F#coloraba array
	Endpoint	No data	Species	Method	Exposure time (days)	Effects observed
restrial toxicity - birds, if available:	Endpoint	No data available  Value  No data	Species	Method	Exposure time (days)	Effects observed
restrial toxicity - birds, if available: Ingredient(s)	Endpoint	No data available Value	Species	Method	Exposure time (days)	Effects observed
rrestrial toxicity - birds, if available: Ingredient(s) citric acid		No data available  Value  No data	Species	Method	Exposure time (days)	Effects observed
restrial toxicity - birds, if available: Ingredient(s) citric acid		No data available  Value  No data	Species Species	Method	Exposure time (days)	Effects observed
restrial toxicity - birds, if available: Ingredient(s) citric acid restrial toxicity - beneficial insects, if avail	able:	No data available  Value  No data available			time (days)	
restrial toxicity - birds, if available: Ingredient(s) citric acid restrial toxicity - beneficial insects, if avail	able:	No data available  Value  No data available  Value (mg/kg dw soil)  No data			time (days)	
restrial toxicity - birds, if available: Ingredient(s)  citric acid  restrial toxicity - beneficial insects, if availungredient(s)	able:	No data available  Value  No data available  Value (mg/kg dw soil)			time (days)	
restrial toxicity - birds, if available: Ingredient(s)  citric acid  restrial toxicity - beneficial insects, if avail. Ingredient(s)  citric acid	able:	No data available  Value  No data available  Value (mg/kg dw soil)  No data			time (days)	
restrial toxicity - birds, if available: Ingredient(s) citric acid restrial toxicity - beneficial insects, if avail. Ingredient(s) citric acid	able: Endpoint	No data available  Value  No data available  Value (mg/kg dw soil)  No data available	Species	Method	Exposure time (days)	Effects observed
restrial toxicity - birds, if available: Ingredient(s)  citric acid  restrial toxicity - beneficial insects, if avail: Ingredient(s)	able:	No data available  Value  No data available  Value (mg/kg dw soil)  No data available  Value (mg/kg dw soil)			time (days)	
restrial toxicity - birds, if available: Ingredient(s) citric acid restrial toxicity - beneficial insects, if avail. Ingredient(s) citric acid	able: Endpoint	No data available  Value  No data available  Value (mg/kg dw soil)  No data available  Value (mg/kg dw soil)  No data available	Species	Method	Exposure time (days)	Effects observed
rrestrial toxicity - birds, if available: Ingredient(s)  citric acid  rrestrial toxicity - beneficial insects, if available: Ingredient(s)  citric acid  rrestrial toxicity - soil bacteria, if available: Ingredient(s)	able: Endpoint	Value Value (mg/kg dw soil)  Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
restrial toxicity - birds, if available: Ingredient(s) citric acid  restrial toxicity - beneficial insects, if available: Ingredient(s) citric acid  restrial toxicity - soil bacteria, if available: Ingredient(s) citric acid  2 Persistence and degradability	able: Endpoint	No data available  Value  No data available  Value (mg/kg dw soil)  No data available  Value (mg/kg dw soil)  No data available	Species	Method	Exposure time (days)	Effects observed
restrial toxicity - birds, if available: Ingredient(s) citric acid restrial toxicity - beneficial insects, if available: Ingredient(s) citric acid restrial toxicity - soil bacteria, if available: Ingredient(s) citric acid	able:  Endpoint  Endpoint	No data available  Value  No data available  Value (mg/kg dw soil)  No data available  Value (mg/kg dw soil)  No data available	Species	Method Method	Exposure time (days)  Exposure time (days)	Effects observed
rrestrial toxicity - birds, if available: Ingredient(s)  citric acid  rrestrial toxicity - beneficial insects, if available: Ingredient(s)  citric acid  rrestrial toxicity - soil bacteria, if available: Ingredient(s)	able:  Endpoint  Endpoint	No data available  Value  No data available  Value (mg/kg dw soil)  No data available  Value (mg/kg dw soil)  No data available  Meth	Species  Species	Method	Exposure time (days)  Exposure time (days)	Effects observed

Abiotic degradation - hydrolysis, if available:

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

Abiotic degradation - other processes, if available:

Ingredient(s)	Туре	Half-life time	Method	Evaluation	Remark
citric acid		No data available			

**Biodegradation** Ready biodegradability - aerobic conditions

ready bready adapting a dropre derianterio					
Ingredient(s)	Inoculum	Analytical	DT 50	Method	Evaluation
		method			1

citric acid		97 % in 28 day(s)	OECD 301B	Readily biodegradable
		, , ,		, ,

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation
citric acid					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation
citric acid					No data available

#### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
citric acid	-1.72		No bioaccumulation expected	

Bioconcentration factor (BCF)

- 3	Diocomocnitiation lactor (	Attent tactor (Bet )								
	Ingredient(s)	Value	Species	Method	Evaluation	Remark				
ĺ	citric acid	No data available								

#### 12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
citric acid	No data available				Potential for mobility in soil, soluble in water

#### 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.

**Empty packaging** 

**Recommendation:** Dispose of observing national or local regulations.

Suitable cleaning agents: Water, if necessary with cleaning agent.

# SECTION 14: Transport information

### Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

14.1 UN number: Non-dangerous goods

**14.2 UN proper shipping name:** Non-dangerous goods **14.3 Transport hazard class(es):** Non-dangerous goods

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods14.6 Special precautions for user: Non-dangerous goods

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Non-dangerous goods

# **SECTION 15: Regulatory information**

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

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

cationic surfactants

5 - 15 %

perfumes, Hexyl Cinnamal

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

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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.

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

- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

#### Abbreviations and acronyms:

- · AISE The international Association for Soaps, Detergents and Maintenance Products
- ATE Acute Toxicity Estimate
- DNEL Derived No Effect Limit
- $\bullet$  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

**End of Safety Data Sheet**