

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Clax Revoflow Pro 35X1

Revision: 2023-05-24 **Version:** 11.4

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

1.1 Product identifier

Trade name: Clax Revoflow Pro 35X1

UFI: 9XN5-U0UF-500W-2VFY

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

Product use: Laundry detergent.

For professional use only.

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

SWED - Sector-specific worker exposure description :

AISE_SWED_PW_8b_2 AISE_SWED_PW_1_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.

Contains subtilisin (Subtilisin)

Hazard statements:

H319 - Causes serious eye irritation. EUH208 - May produce an allergic reaction.

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
sodium carbonate	207-838-8	497-19-8	01-2119485498-19	Eye Irrit. 2 (H319)		10-20
sodium percarbonate	239-707-6	15630-89-4	01-2119457268-30	Ox. Sol. 3 (H272) Acute Tox. 4 (H302) Eye Dam. 1 (H318)		3-10
Alcohols, C10-16, ethoxylated (7-<15 EO)	[4]	68002-97-1	[4]	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)		3-10
subtilisin	232-752-2	9014-01-1	01-2119480434-38	Acute Tox. 4 (H302) STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Resp. Sens. 1 (H334) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)		0.1-1

Specific concentration limits

sodium percarbonate:

• Eye Dam. 1 (H318) >= 25% > Eye Irrit. 2 (H319) >= 7.5%

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

ATE, if available, are listed in section 11.

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

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

Wear eye/face protection.

6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up

Collect mechanically. 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:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
subtilisin	0.00004 mg/m ³	0.00012 mg/m ³

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
sodium carbonate	-	-	-	-
sodium percarbonate	-	-	-	-
Alcohols, C10-16, ethoxylated (7-<15 EO)	-	-	-	-
subtilisin	=	3.6	=	1.8

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)
sodium carbonate		-	No data available	-
sodium percarbonate	12.8 mg/cm ² skin	-	12.8 mg/cm ² skin	-
Alcohols, C10-16, ethoxylated (7-<15 EO)	-	-	No data available	-
subtilisin	0.2 %	-	-	-

DNEL/DMEL dermal exposure - Consumer

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
sodium carbonate	No data available	-	No data available	-
sodium percarbonate	6.4 mg/cm ² skin	-	6.4 mg/cm ² skin	-
Alcohols, C10-16, ethoxylated (7-<15 EO)	-	-	No data available	-
subtilisin	0.2 %	-	-	-

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
sodium carbonate	-	-	10	-
sodium percarbonate	-	-	5	-
Alcohols, C10-16, ethoxylated (7-<15 EO)	-	-	-	-

subtilisin	=	=	0.00006	=

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
sodium carbonate	10	-	-	-
sodium percarbonate	-	-	-	-
Alcohols, C10-16, ethoxylated (7-<15 EO)	-	-	-	-
subtilisin	-	-	0.000015	-

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)
sodium carbonate	-	-	-	-
sodium percarbonate	0.035	0.035	0.035	16.24
Alcohols, C10-16, ethoxylated (7-<15 EO)	-	-	-	-
subtilisin	0.00006	0.000006	-	65

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
sodium carbonate	-	-	-	-
sodium percarbonate	-	-	-	-
Alcohols, C10-16, ethoxylated (7-<15 EO)	-	-	-	-
subtilisin	-	-	-	-

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

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.

Recommended safety measures for handling the <u>diluted</u> product:

Recommended maximum concentration (% w/w): 0.35

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:

READIT use section to the unuted pre	auct.				
	SWED	LCS	PROC	Duration	ERC
				(min)	
Automatic application in a dedicated closed system	AISE SWED PW 1 1	PW	PROC 1	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.

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

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: Solid Appearance: Powder Colour: Off-white Odour: Product specific

Odour threshold: Not applicable

Melting point/freezing point (°C): Not determined Initial boiling point and boiling range (°C): Not determined Not relevant to classification of this product

Not applicable to solids or gases

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
sodium carbonate	1600	Method not given	1013
sodium percarbonate	Product decomposes before boiling		
Alcohols, C10-16, ethoxylated (7-<15 EO)	No data available		
subtilisin	No data available		

Method / remark

Flammability (solid, gas): Not determined Flammability (liquid): Not applicable. Flash point (°C): Not applicable. Sustained combustion: Not applicable.

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

Not relevant to classification of this product

Lower and upper explosion limit/flammability limit (%): Not determined See substance data

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
subtilisin		-

Method / remark Not relevant to classification of this product

ISO 4316

Autoignition temperature: Not determined Decomposition temperature: Not applicable.

pH: Not applicable

Dilution pH: ≈ 10 (0.35 %)

Kinematic viscosity: Not applicable to solids or gases Not applicable to solids or gases

Solubility in / Miscibility with water: Soluble

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
sodium carbonate	210-215	Method not given	20
sodium percarbonate	140	Method not given	20
Alcohols, C10-16, ethoxylated (7-<15 EO)	No data available		
subtilisin	No data available		

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

Method / remark

See substance data

Substance data, vapour pressure

Vapour pressure: Not determined

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sodium carbonate	Negligible		
sodium percarbonate	Negligible		
Alcohols, C10-16, ethoxylated (7-<15 EO)	No data available		
subtilisin	Not applicable		

Relative density: ≈ 0.96 (20 °C) Relative vapour density: No data available. Method / remark OECD 109 (EU A.3) Not applicable to solids

Particle characteristics: Not determined. Not relevant to classification of this product.

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 determined

Not applicable to solids or gases

9.2.2 Other safety characteristicsNo 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

None known under normal use conditions.

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

Eye irritation and corrosivity

Result: Eye irritant 2 **Species:** Not applicable. **Method:** Weight of evidence

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

Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	ATE
		(mg/kg)			time (h)	(mg/kg)
sodium carbonate	LD 50	2800	Rat	OECD 401 (EU B.1)		2800
sodium percarbonate	LD 50	1034	Rat	Method not given		1034
Alcohols, C10-16, ethoxylated (7-<15 EO)	LD 50	≥ 1000		Read across		1000
subtilisin	LD 50	1800	Rat	OECD 401 (EU B.1)		1800

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
sodium carbonate	LD 50	> 2000	Rabbit	Method not given		Not established
sodium percarbonate	LD 50	> 2000	Rabbit	OECD 402 (EU B.3)		Not established
Alcohols, C10-16, ethoxylated (7-<15 EO)	LD 50	> 2000		Method not given		Not established
subtilisin		No data available				Not established

Acute inhalative toxicity

	Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
	sodium carbonate	LC 50	> 2.3 (dust)		Weight of evidence	2
5	sodium percarbonate		No data			

	available		
Alcohols, C10-16, ethoxylated (7-<15 EO)	No data		
	available		
subtilisin	-	Weight of evidence	

Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust	ATE - inhalation, mist	ATE - inhalation,	ATE - inhalation, gas
	(mg/l)	(mg/l)	vapour (mg/l)	(mg/l)
sodium carbonate	Not established	Not established	Not established	Not established
sodium percarbonate	Not established	Not established	Not established	Not established
Alcohols, C10-16, ethoxylated (7-<15 EO)	Not established	Not established	Not established	Not established
subtilisin	Not established	Not established	Not established	Not established

Irritation and corrosivity Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	Not irritant	Rabbit	OECD 404 (EU B.4)	
sodium percarbonate	Not irritant	Rabbit	Method not given	
Alcohols, C10-16, ethoxylated (7-<15 EO)	Not irritant	Rabbit	Method not given	
subtilisin	Mild irritant	Rabbit	OECD 404 (EU B.4)	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	Irritant	Rabbit	OECD 405 (EU B.5)	
sodium percarbonate	Severe damage	Rabbit	EPA OPP 81-4	
Alcohols, C10-16, ethoxylated (7-<15 EO)	Severe damage	Rabbit	Method not given	
subtilisin	Not corrosive or irritant	Rabbit	OECD 405 (EU B.5)	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	No data available			
sodium percarbonate	Irritating to respiratory tract	Mouse	Method not given	
Alcohols, C10-16, ethoxylated (7-<15 EO)	No data available			
subtilisin	Irritating to respiratory tract			

Sensitisation Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sodium carbonate	Not sensitising		Method not given	
sodium percarbonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
Alcohols, C10-16, ethoxylated (7-<15 EO)	Not sensitising	Guinea pig	Method not given	
subtilisin	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	No data available			
sodium percarbonate	No data available			
Alcohols, C10-16, ethoxylated (7-<15 EO)	No data available			
subtilisin	Sensitising		Weight of evidence	

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Mutagenicity

Ingredient(s)	Result (in-vitro)	Method	Result (in-vivo)	Method
		(in-vitro)		(in-vivo)
sodium carbonate	No data available		No data available	
sodium percarbonate	No data available		No data available	
Alcohols, C10-16, ethoxylated (7-<15 EO)	No evidence for mutagenicity, negative test results		No evidence for mutagenicity, negative test results	Method not given
subtilisin	3 7, 3	OECD 471 (EU B.12/13) OECD 473 OECD 476 (Chinese Hamster Ovary)		

Carcinogenicity

Ingredient(s)	Effect
sodium carbonate	No evidence for carcinogenicity, weight-of-evidence
sodium percarbonate	No data available
Alcohols, C10-16, ethoxylated (7-<15 EO)	No evidence for carcinogenicity, weight-of-evidence
subtilisin	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
sodium carbonate			No data available				
sodium percarbonate			No data available				
Alcohols, C10-16, ethoxylated (7-<15 EO)			No data available		Literature		No evidence for teratogenic effects No evidence for reproductive toxicity
subtilisin			No data available				

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
sodium carbonate		No data available				
sodium percarbonate		No data available				
Alcohols, C10-16, ethoxylated (7-<15 EO)		No data available				
subtilisin		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value	Species	Method		Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
sodium carbonate		No data				
		available				
sodium percarbonate		No data				
· ·		available				
Alcohols, C10-16, ethoxylated (7-<15 EO)		No data				
		available				
subtilisin		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
sodium carbonate		No data				
		available				
sodium percarbonate		No data				
		available				
Alcohols, C10-16, ethoxylated (7-<15 EO)		No data				
		available				
subtilisin		No data				
		available				

Chronic toxicity

Chronic toxicity								
Ingredient(s)	Exposure	Endpoint	Value	Species	Method	Exposure	Specific effects and	Remark
	route		(mg/kg bw/d)			time	organs affected	
sodium carbonate			No data					
			available					
sodium percarbonate			No data					
			available					
Alcohols, C10-16,			No data					
ethoxylated (7-<15 EO)			available					
subtilisin			No data					
			available					

STOT-single exposure

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Ingredient(s)	Affected organ(s)				
sodium carbonate	No data available				
sodium percarbonate	No data available				
Alcohols, C10-16, ethoxylated (7-<15 EO)	No data available				
subtilisin	Respiratory tract				

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	No data available
sodium percarbonate	No data available
Alcohols, C10-16, ethoxylated (7-<15 EO)	No data available
subtilisin	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)
sodium carbonate	LC 50	300	Lepomis	Method not given	96
			macrochirus		
sodium percarbonate	LC 50	70.7	Pimephales	Method not given	96
'			promelas	J	
Alcohols, C10-16, ethoxylated (7-<15 EO)	LC 50	> 1-10	Brachydanio	Method not given	96
			rerio	,	
subtilisin	LC 50	8.2	Fish	OECD 203 (EU C.1)	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	EC 50	200-227	Ceriodaphnia dubia	Method not given	96
sodium percarbonate	EC 50	4.9	Daphnia pulex	Method not given	48
Alcohols, C10-16, ethoxylated (7-<15 EO)	EC 50	> 1-10	Daphnia magna Straus	Method not given	48
subtilisin	EC 50	0.586	Daphnia	OECD 202 (EU C.2)	48

Aquatic short-term toxicity - algae

riquatic short term toxicity—digae					
Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	EC 50	> 800	Selenastrum capricornutum		72
sodium percarbonate	EC 50	2.5	Chlorella vulgaris	Read across	
Alcohols, C10-16, ethoxylated (7-<15 EO)	EC 50	> 1-10	Desmodesmus subspicatus	Method not given	72
subtilisin	Er C 50	0.830	Not specified	OECD 201 (EU C.3)	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sodium carbonate		No data available			
sodium percarbonate		No data available			
Alcohols, C10-16, ethoxylated (7-<15 EO)		No data available			
subtilisin		No data			

				availal	ble				
									
act on sewage plants - toxicity to bacteria Ingredient(s)		l En	dpoint	Valu	e Inocu	lum	N	Method	Exposu
sodium carbonate				(mg/l	1)				time
				availal	ble			FOD 000	0.5.
sodium percarbonate			EC 50	466	sluc	dge		ECD 209	0.5 hour
Alcohols, C10-16, ethoxylated (7-<	15 EO)		EC 50	140) Activ		Meth	od not given	
subtilisin				No da availal					
uatic long-term toxicity					·	•			
atic long-term toxicity - fish Ingredient(s)	Endpoint	Value (mg/l)	Spe	ecies	Method	Expos		Effects ob	served
sodium carbonate		No data				Link			
sodium percarbonate	NOEC	available 7.4	Pime	ephales	Method not	96 hou	ır(s)		
Alcohols, C10-16, ethoxylated (7-<15 EO)		No data	pro	melas	given	1	_		
subtilisin		available No data				-			
SUDUIISIN		available							
atic long-term toxicity - crustacea Ingredient(s)	Endpoint	Value	Spe	ecies	Method	Expos		Effects ob	served
sodium carbonate		(mg/l) No data				time			
	NOEC	available 2	Dont	nia nulas	Method not	10 hz.	ır(c)		
sodium percarbonate				nia pulex	given	48 hou	11(2)		
Alcohols, C10-16, ethoxylated (7-<15 EO) subtilisin	EC 10	> 0.1-1 No data	Dapi	hnia sp.	OECD 211		_		
oubtilion:		available							
atic toxicity to other aquatic benthic organisms, in	aludina cadimas	dwolling orga	nieme if	available:					
Ingredient(s)	Endpoint	Value		ecies	Method	Expos		Effects ob	served
		(mg/kg dw sediment)				time (d	ays)		
sodium carbonate		No data available							
sodium percarbonate		No data available							
Alcohols, C10-16, ethoxylated (7-<15 EO)		No data							
subtilisin		available No data					-+		
-		available							
restrial toxicity									
restrial toxicity estrial toxicity - soil invertebrates, including earthy									
Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Spo	ecies	Method	Expos time (d		Effects ob	served
sodium carbonate		No data available							
	1	available				1			
estrial toxicity - plants, if available:						-			
Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Spo	ecies	Method	Expos time (d		Effects ob	served
sodium carbonate		No data available							
			•			•			
					Motheral	Expos		Effects ob	names -1
estrial toxicity - birds, if available:	En do 1	Male		:		PVNAS	H ATIL	ritects of	served
Ingredient(s)	Endpoint	Value	Spo	ecies	Method	time (d		2110010 01	
	Endpoint	Value No data available	Spo	ecies	Wethod				
Ingredient(s)	Endpoint	No data	Spo	ecies	Method				
Ingredient(s)	Endpoint	No data		ecies	Method		ays)	Effects ob	

	soil)		
sodium carbonate	No data		
	available		

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw			time (days)	
		soil)				
sodium carbonate		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
sodium carbonate	No data available			
sodium percarbonate	NA	Method not given		

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
sodium carbonate	No data available		Rapidly hydrolysible	
sodium percarbonate	< 1 day(s)	Method not given	Hydrolysible	

Abiotic degradation - other processes, if available:

Ingredient(s)	Туре	Half-life time	Method	Evaluation	Remark
sodium carbonate		No data available			

BiodegradationReady biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
sodium carbonate					Not applicable (inorganic substance)
sodium percarbonate					Not applicable (inorganic substance)
Alcohols, C10-16, ethoxylated (7-<15 EO)	Activated sludge, aerobe	Method not given	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
subtilisin				OECD 301B	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

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

Degradation in relevant environmental compartments, if available:

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

12.3 Bioaccumulative potential

Ingredient(s)	Value	Method	Evaluation	Remark
sodium carbonate	No data available		No bioaccumulation expected	
sodium percarbonate	No data available			
Alcohols, C10-16, ethoxylated (7-<15 EO)	3.55	QSAR	No bioaccumulation expected	
subtilisin	< 0			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium carbonate	No data available			No bioaccumulation expected	
sodium percarbonate	No data available				
Alcohols, C10-16, ethoxylated (7-<15 EO)	No data available				
subtilisin	-			Not relevant, does not bioaccumulate	

12.4 Mobility in soilAdsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
sodium carbonate	No data available				Potential for mobility in soil, soluble in water
sodium percarbonate	No data available				High potential for mobility in soil
Alcohols, C10-16, ethoxylated (7-<15 EO)	No data available				
subtilisin	No data available				

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

European Waste Catalogue:

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. 20 01 29* - detergents containing dangerous substances.

Empty packaging

Recommendation: Dispose of observing national or local regulations.

SECTION 14: Transport information

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

14.1 UN number or ID 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 goods 14.6 Special precautions for user: Non-dangerous goods

14.7 Maritime transport in bulk according to IMO instruments: 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

>= 30 % oxygen-based bleaching agents, zeolites 5 - 15 % < 5 % soap, non-ionic surfactants, polycarboxylates optical brighteners, perfumes, enzymes, Limonene, Linalool

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

Comah - classification: Not classified

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture

SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

SDS code: MSDS5919 Version: 11.4 Revision: 2023-05-24

Reason for revision:

Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 4, 6, 9, 16

Classification procedure

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

Abbreviations and acronyms:

- · AISE The international Association for Soaps, Detergents and Maintenance Products
- ATE Acute Toxicity Estimate
- DNEL Derived No Effect Limit
- EC50 effective concentration, 50%
- ERC Environmental release categories
 EUH CLP Specific hazard statement
- LC50 Lethal Concentration, 50% / Median Lethal Concentration

- LCS Life cycle stage
 LD50 Lethal Dose, 50% / Median Lethal dose
- · NOAEL No observed adverse effect level
- 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
- H272 May intensify fire; oxidiser.
- H302 Harmful if swallowed.
- · H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- 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