

# Safety Data Sheet

According to Regulation (EC) No 1907/2006

## Clax Revoflow Pro Micro 30X1

Revision: 2024-08-08 Version: 09.1

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

1.1 Product identifier

Trade name: Clax Revoflow Pro Micro 30X1

UFI: Q6P5-C0WN-300D-2W75

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

Product use: Laundry detergent. For professional use only.

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

 $\begin{array}{l} \textbf{SWED - Sector-specific worker exposure description:} \\ \textbf{AISE\_SWED\_PW\_4\_1} \\ \textbf{AISE\_SWED\_PW\_8b\_2} \end{array}$ 

AISE\_SWED\_PW\_4\_1

1.3 Details of the supplier of the safety data sheet

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

#### **Contact details**

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: customerservice.uk@solenis.com

## 1.4 Emergency telephone number

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

For medical or environmental emergency only:

call 0800 052 0185

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Eye irritation, Category 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	Classification	Notes	Weight
			number			percent

sodium carbonate	207-838-8	497-19-8	01-211948549 8-19	Eye irritation, Category 2 (H319)	30-50
Alcohols, C10-16, ethoxylated (7-<15 EO)	[4]	68002-97-1	''	Acute toxicity - Oral, Category 4 (H302) Serious eye damage, Category 1 (H318) Chronic aquatic toxicity, Category 3 (H412)	3-10
sodium sulphate	231-820-9	7757-82-6	01-211951922 6-43	Not classified as hazardous	1-3
sodium carboxymethyl cellulose	[4]	9004-32-4	[4]	Not classified as hazardous	1-3
subtilisin	232-752-2	9014-01-1	4-38	Acute toxicity - Oral, Category 4 (H302) Specific target organ toxicity - Single exposure, Category 3 (H335) Skin irritation, Category 2 (H315) Serious eye damage, Category 1 (H318) Respiratory sensitisation, Category 1 (H334) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 2 (H411)	0.1-1

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. 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

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:

Ingre	lient(s)	UK - Long term value(s)	UK - Short term value(s)
sub	ilisin	0.00004 mg/m <sup>3</sup>	0.00012 mg/m <sup>3</sup>

Biological limit values, if available:

## Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

#### **DNEL/DMEL and PNEC values**

**Human exposure** 

DNEL/DMEL oral exposure - Consumer (mg/kg bw)

DNEL/DIVICE Grait 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	-	-	-	-
Alcohols, C10-16, ethoxylated (7-<15 EO)	-	-	-	-
sodium sulphate	-	-	-	-
sodium carboxymethyl cellulose	-	-	-	-
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	-
Alcohols, C10-16, ethoxylated (7-<15 EO)	-	-	No data available	-
sodium sulphate	-	-	-	-
sodium carboxymethyl cellulose	No data available	-	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	-
Alcohols, C10-16, ethoxylated (7-<15 EO)	-	-	No data available	-
sodium sulphate	-	-	-	-
sodium carboxymethyl cellulose	No data available	-	No data available	-
subtilisin	0.2 %	-	-	-

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

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects	effects	effects
sodium carbonate	-	-	10	-
Alcohols, C10-16, ethoxylated (7-<15 EO)	-	-	-	-
sodium sulphate	-	-	20	20
sodium carboxymethyl cellulose	-	-	-	-

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	-	-	-
Alcohols, C10-16, ethoxylated (7-<15 EO)	-	-	-	-
sodium sulphate	-	-	12	12
sodium carboxymethyl cellulose	-	-	-	-
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	-	-	-	-
Alcohols, C10-16, ethoxylated (7-<15 EO)	-	-	-	-
sodium sulphate	-	-	-	-
sodium carboxymethyl cellulose	-	-	-	-
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	-	-	-	-
Alcohols, C10-16, ethoxylated (7-<15 EO)	-	-	-	-
sodium sulphate	-	-	-	-
sodium carboxymethyl cellulose	-	-	-	-
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	LCS	PROC	Duration	ERC
	worker exposure			(min)	
	description				
Automatic application in a dedicated system	AISE_SWED_PW_4_1	PW	PROC 4	480	ERC8a
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.
No special requirements under normal use conditions.
Body protection:
No special requirements under normal use conditions.
No special requirements under normal use conditions.

Respiratory protection: If exposure to dust cannot be avoided use: full-face mask (EN 136) with filter type HEPA (N100, Class H14) (EN 1822) or self-contained or compressed air breathing apparatus (EN 137 / EN 138)

Consider specific local use conditions. In consultation with the supplier of respiratory protection

equipment a different type providing similar protection may be chosen.

**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): 0.38

Appropriate engineering controls:

Appropriate organisational controls:

No special requirements under normal use conditions.

No special requirements under normal use conditions.

REACH use scenarios considered for the diluted product:

SWED	LCS	PROC	Duration	ERC
			(min)	

Automatic application in a dedicated system AISE\_SWED\_PW\_4\_1 PW PROC 4 480 ERC8a

Personal protective equipment

Eye / face protection:
Hand protection:
Body 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: Solid Colour: Medium , White Odour: Product specific

Odour threshold: Not applicable

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

Initial boiling point and boiling range (°C): Not determined 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
Alcohols, C10-16, ethoxylated (7-<15 EO)	No data available		
sodium sulphate	1429	Method not given	1013
sodium carboxymethyl cellulose	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)

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

Autoignition temperature: Not determined Decomposition temperature: Not applicable.

**pH**: Not applicable

**Dilution pH:** ≈ 11 (0.38 %) ISO 4316

Kinematic viscosity: Not determined 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
Alcohols, C10-16, ethoxylated (7-<15 EO)	No data available		
sodium sulphate	186	Method not given	20
sodium carboxymethyl cellulose	Soluble	Method not given	
subtilisin	No data available		

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)
sodium carbonate	Negligible		

Alcohols, C10-16, ethoxylated (7-<15 EO)	< 0.15	20
sodium sulphate	No data available	
sodium carboxymethyl cellulose	No data available	
subtilisin	Not applicable	

Method / remark

Relative density: ≈ 1.06 (20 °C) OECD 109 (EU A.3) Relative vapour density: No data available. 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 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

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 (mg/kg)	Species	Method	Exposure time (h)	ATE Oral (mg/kg)
sodium carbonate	LD 50	2800	Rat	OECD 401 (EU B.1)	1	2800
Alcohols, C10-16, ethoxylated (7-<15 EO)	LD 50	300-2000	Rat	Weight of evidence		1000
sodium sulphate	LD 50	10000	Rat	Method not given		Not established
sodium carboxymethyl cellulose	LD 50	> 2500	Rat	Method not given		Not established
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 Dermal (mg/kg)
sodium carbonate	LD 50	> 2000	Rabbit	Method not given		Not established
Alcohols, C10-16, ethoxylated (7-<15 EO)	LD 50	> 2000		Method not given		Not established

sodium sulphate	LD 50	> 2000				Not established
sodium carboxymethyl cellulose	LD 50	> 2000	Rabbit	Method not given		Not established
subtilisin		No data				Not established
		available			l	

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
Alcohols, C10-16, ethoxylated (7-<15 EO)		No data available			
sodium sulphate		No data available			
sodium carboxymethyl cellulose	LC 50	> 5800	Rat	Method not given	
subtilisin		-		Weight of evidence	

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)
sodium carbonate	Not established	Not established	Not established	Not established
Alcohols, C10-16, ethoxylated (7-<15 EO)	Not established	Not established	Not established	Not established
sodium sulphate	Not established	Not established	Not established	Not established
sodium carboxymethyl cellulose	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)	
Alcohols, C10-16, ethoxylated (7-<15 EO)	Not irritant	Rabbit	Method not given	
sodium sulphate	No data available			
sodium carboxymethyl cellulose	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)	
Alcohols, C10-16, ethoxylated (7-<15 EO)	Severe damage	Rabbit	Method not given	
sodium sulphate	No data available			
sodium carboxymethyl cellulose	Not corrosive or irritant	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			
Alcohols, C10-16, ethoxylated (7-<15 EO)	No data available			
sodium sulphate	No data available			
sodium carboxymethyl cellulose	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	
Alcohols, C10-16, ethoxylated (7-<15 EO)	Not sensitising	Guinea pig	Method not given	
sodium sulphate	Not sensitising		Method not given	
sodium carboxymethyl cellulose	No data available			
subtilisin	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	No data available			
Alcohols, C10-16, ethoxylated (7-<15 EO)	No data available			
sodium sulphate	No data available			

	sodium carboxymethyl cellulose	No data available		
Γ	subtilisin	Sensitising	Weight of evidence	

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

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
sodium carbonate	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
sodium sulphate	No evidence for mutagenicity		No data available	
sodium carboxymethyl cellulose	No data available		No data available	
subtilisin		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				
Alcohols, C10-16, ethoxylated (7-<15 EO)	No evidence for carcinogenicity, weight-of-evidence				
sodium sulphate	No evidence for carcinogenicity, weight-of-evidence				
sodium carboxymethyl cellulose	No data available				
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				
Alcohols, C10-16, ethoxylated (7-<15 EO)			No data available		Literature		No evidence for teratogenic effects No evidence for reproductive toxicity
sodium sulphate			No data available				No evidence for reproductive toxicity
sodium carboxymethyl cellulose			No data available				
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				
Alcohols, C10-16, ethoxylated (7-<15 EO)		No data available				
sodium sulphate		No data available				
sodium carboxymethyl cellulose		No data available				
subtilisin		No data available				

Sub-chronic dermal toxicity

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

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

STOT-single exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	Not applicable
Alcohols, C10-16, ethoxylated (7-<15 EO)	No data available
sodium sulphate	No data available
sodium carboxymethyl cellulose	No data available
subtilisin	Respiratory tract

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	Not applicable
Alcohols, C10-16, ethoxylated (7-<15 EO)	No data available
sodium sulphate	No data available
sodium carboxymethyl cellulose	No data available
subtilisin	No data available

## **Aspiration hazard**

 $\stackrel{\cdot}{\text{Substances}}$  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 macrochirus	Method not given	96
Alcohols, C10-16, ethoxylated (7-<15 EO)	LC 50	> 1-10	Brachydanio rerio	Method not given	96
sodium sulphate	LC 50	81 - 1100	Fish	Method not given	96
sodium carboxymethyl cellulose	LC 50	> 100	Lepomis macrochirus	Method not given	96

			Oncorhynchus mykiss		
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
Alcohols, C10-16, ethoxylated (7-<15 EO)	EC 50	> 1-10	Daphnia magna Straus	Method not given	48
sodium sulphate	EC 50	4580	Daphnia magna Straus	Method not given	48
sodium carboxymethyl cellulose	EC 50	> 1000	Daphnia	Method not given	
subtilisin	EC 50	0.586	Daphnia	OECD 202 (EU C.2)	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	EC 50	> 800	Selenastrum capricornutum		72
Alcohols, C10-16, ethoxylated (7-<15 EO)	EC 50	> 1-10	Desmodesmus subspicatus	Method not given	72
sodium sulphate	EC 50	1900		Non guideline test	120
sodium carboxymethyl cellulose		No data available			
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			
Alcohols, C10-16, ethoxylated (7-<15 EO)		No data available			
sodium sulphate		No data available			
sodium carboxymethyl cellulose		No data available			
subtilisin		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
sodium carbonate		No data available			
Alcohols, C10-16, ethoxylated (7-<15 EO)	EC 50	140	Activated sludge	Method not given	
sodium sulphate		No data available			
sodium carboxymethyl cellulose		No data available			
subtilisin		No data available			

# Aquatic long-term toxicity Aquatic long-term toxicity - fish

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

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium carbonate		No data				
		available				

Alcohols, C10-16, ethoxylated (7-<15 EO)	EC 10	> 0.1-1	Daphnia sp.	OECD 211	
sodium sulphate		No data			
		available			
sodium carboxymethyl cellulose		No data			
		available			
subtilisin		No data			
		available			

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data available				
Alcohols, C10-16, ethoxylated (7-<15 EO)		No data available				
sodium sulphate		No data available				
sodium carboxymethyl cellulose		No data available				
subtilisin		No data available				

Terrestrial toxicity Terrestrial toxicity - soil invertebrates, including earthwore	ms, if availabl	e:				
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw			time (days)	
		soil)				
sodium carbonate		No data				
		available				

Terrestrial toxicity - plants, if available:

renesui	ai toxicity - piarits, ii avaliable.						
	Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
	• ( )		(mg/kg dw soil)	·		time (days)	
	sodium carbonate		No data available				

Terrestrial toxicity - birds, if available:

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

i errestriai toxicity - beneficiai insects, if available:						
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw	•		time (days)	
		soil)			, , ,	
sodium carbonate		No data				
		available				

Terrestrial toxicity - soil bacteria, if available:

Terrestrial toxicity - soil bacteria, il 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			

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
sodium carbonate	No data available		Rapidly hydrolysible	

Abiotic degradation - other processes, if available:

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

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
sodium carbonate					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
sodium sulphate					Not applicable (inorganic substance)
sodium carboxymethyl cellulose		DOC reduction	10-30% in 28 day(s)		Not 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	
Alcohols, C10-16, ethoxylated (7-<15 EO)	3.55	QSAR	No bioaccumulation expected	
sodium sulphate	-4.38	Method not given	No bioaccumulation expected	
sodium carboxymethyl cellulose	No data available			
subtilisin	< 0			

Bioconcentration factor (BCF)

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

## 12.4 Mobility in soil

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
Alcohols, C10-16, ethoxylated (7-<15 EO)	No data available				
sodium sulphate	No data available				Potential for mobility in soil, soluble in water
sodium carboxymethyl cellulose	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 products:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

**European Waste Catalogue:** 20 01 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

phosphates >= 30 % non-ionic surfactants < 5 %

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:** MSDS5925 **Version:** 09.1 **Revision:** 2024-08-08

## Reason for revision:

This data sheet contains changes from the previous version in section(s):, Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006, 1, 8, 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
- 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**