

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Revision: 2023-10-09

Sun Professional All in 1 Extra Power Tabs

Version: 05.0

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

1.1 Product identifier

Trade name: Sun Professional All in 1 Extra Power Tabs Sun is a registered trade mark and is used under licence of Unilever

UFI: SNY0-F0YR-X00K-U8GT

1.2 Relevant identified uses of the substance or mixture and uses advised against Product use: Dish wash product.

Uses advised against:

Uses other than those identified are not recommended.

SWED - Sector-specific worker exposure description :

AISE_SWED_PW_8a_2 AISE_SWED_PW_8b_2 PC35-Washing and cleaning products AISE_SWED_PW_4_1 PC35-Washing and cleaning products

1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

Contact details

Diversey Sverige AB Liljeholmsstranden 3, plan 6/4 tr, SE-117 61 Stockholm, Tel: 08-7799300 E-mail: info.se@diversey.com

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible). 112 – begär Giftinformation.

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.

Precautionary statements:

P102 - Keep out of reach of children. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.

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	01-211948549 8-19	Eye irritation, Category 2 (H319)		30-50
sodium percarbonate	239-707-6	15630-89-4	01-211945726 8-30	Oxidising solids, Category 2 (H272) Acute toxicity - Oral, Category 4 (H302) Serious eye damage, Category 1 (H318)		10-20
Alcohols, C16-18, ethoxylated	500-212-8	68439-49-6	-	Acute toxicity - Oral, Category 4 (H302) Eye irritation, Category 2 (H319) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 3 (H412)		3-10
sodium silicate	215-687-4	1344-09-8	01-211944872 5-31	Specific target organ toxicity - Single exposure, Category 3 (H335) Skin irritation, Category 2 (H315) Eye irritation, Category 2 (H319)		1-3
tetrasodium (1-hydroxy ethylidene)bisphosphonate	223-267-7	3794-83-0	01- 2119510382-5 2	Acute toxicity - Oral, Category 4 (H302) Eye irritation, Category 2 (H319)		1-3
subtilisin	232-752-2	9014-01-1	01-211948043 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

Specific concentration limits

sodium percarbonate: • Serious eye damage, Category 1 (H318) >= 25% > Eye irritation, Category 2 (H319) >= 7.5%

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. 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 effe	ects, 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:

Follow general hygiene considerations recognised as common good workplace practices. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Do not mix with other products unless adviced by Diversey. Wash face, hands and any exposed skin thoroughly after handling. 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. Keep out of reach of children.

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)	Long term value(s)	Short term value(s)	Ceiling value(s)
subtilisin	1 glycinenhet(er)/m ³	3 glycine unit/m ³	3 glycinenhet(er)/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, C16-18, ethoxylated	No data available	No data available	No data available	No data available
sodium silicate	-	-	-	0.8
tetrasodium (1-hydroxy ethylidene)bisphosphonate	-	-	-	2.4
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, C16-18, ethoxylated	No data available	No data available	No data available	No data available
sodium silicate	No data available	-	No data available	1.59
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available	-	No data available	48
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, C16-18, ethoxylated	No data available	No data available	No data available	No data available
sodium silicate	No data available	-	No data available	0.8
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available	-	No data available	24
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, C16-18, ethoxylated	No data available	No data available	No data available	No data available
sodium silicate	-	-	-	5.61
tetrasodium (1-hydroxy ethylidene)bisphosphonate	-	-	-	16.9
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, C16-18, ethoxylated	No data available	No data available	No data available	No data available
sodium silicate	-	-	-	1.38
tetrasodium (1-hydroxy ethylidene)bisphosphonate	10	-	10	4.2
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, C16-18, ethoxylated	No data available	No data available	No data available	No data available
sodium silicate	7.5	1	7.5	348
tetrasodium (1-hydroxy ethylidene)bisphosphonate	-	-	-	-
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, C16-18, ethoxylated	No data available	No data available	No data available	No data available
sodium silicate	-	-	-	-
tetrasodium (1-hydroxy ethylidene)bisphosphonate	-	-	-	-
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 co	ontrols:
Appropriate	organisational	controls

No special requirements under normal use conditions.

ganisational 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	
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	worker exposure description			(min)	
PC35-Washing and cleaning products	PC35-Washing and cleaning products	С	-	-	ERC8a
Manual transfer and dilution	AISE_SWED_PW_8a_2	PW	PROC 8a	60	ERC8a
Manual transfer and dilution	AISE_SWED_PW_8b_2	PW	PROC 8b	60	ERC8b

Personal protective equipmentEye / face protection:Hand protection:Body protection:Body protection:No special requirements under normal use conditions.Body protection: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): 1

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

REACH use scenarios considered for the diluted product:

	SWED	LCS	PROC	Duration	ERC
				(min)	
PC35-Washing and cleaning products	PC35-Washing and	С	-	-	ERC8a
	cleaning products				
Automatic application in a dedicated system	AISE_SWED_PW_4_1	PW	PROC 4	480	ERC8a

Personal protective equipment

Eye / face protection:	No special requirements under normal use conditions.
Hand protection:	No special requirements under normal use conditions.
Body protection:	No special requirements under normal use conditions.
Respiratory protection:	No special requirements under normal use conditions.
Environmental exposure controls:	No special requirements under normal use conditions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties Information in this section refers to the product, unless it is specifically stated that substance data is listed

Physical state: Solid Appearance: Tablets Colour: from White to Purple Odour: Product specific Odour threshold: Not applicable Melting point/freezing point (°C): Not determined Initial boiling point and boiling range (°C): Not determined

Method / remark

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, C16-18, ethoxylated	No data available		
sodium silicate	> 100	Method not given	
tetrasodium (1-hydroxy ethylidene)bisphosphonate	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	-	-

Autoignition temperature: Not determined Decomposition temperature: Not applicable. pH: Not applicable Dilution pH: > 11 (1 %) Kinematic viscosity: Not determined Solubility in / Miscibility with water: Soluble

Method / remark

ISO 4316 Not applicable to solids or gases

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, C16-18, ethoxylated	No data available		
sodium silicate	Soluble	Method not given	20
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available		
subtilisin	No data available		

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

Vapour pressure: Not determined

Method / remark

Method / remark OECD 109 (EU A.3)

Weight of evidence

Not applicable to solids or gases

Not applicable to solids

Not relevant to classification of this product.

See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sodium carbonate	Negligible		
sodium percarbonate	Negligible		
Alcohols, C16-18, ethoxylated	No data available		
sodium silicate	No data available		
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available		
subtilisin	Not applicable		

Relative density: ≈ 0.85 (20 °C) Relative vapour density: No data available. Particle characteristics: Not determined.

9.2 Other information

9.2.1 Information with regard to physical hazard classesExplosive properties:Not explosive.Oxidising properties:Not oxidising.Corrosion to metals:Not determined

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

Skin irritation and corrosivity
Result: Not corrosive or irritant
Eye irritation and corrosivity
Result: Eye irritant 2Method: Weight of evidenceMethod:Bridging

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

Acute toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (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, C16-18, ethoxylated		No data available				15000
sodium silicate	LD 50	3400	Rat	Method not given		Not established
tetrasodium (1-hydroxy ethylidene)bisphosphonate	LD 50	940	Rat	OECD 401 (EU B.1)		940
subtilisin	LD 50	1800	Rat	OECD 401 (EU B.1)		1800

Acute dermal toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	ATE
		(mg/kg)			time (h)	(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, C16-18, ethoxylated		No data available				Not established
sodium silicate	LD 50	> 5000	Rat	Method not given		Not established
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data available				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
sodium percarbonate		No data available			
Alcohols, C16-18, ethoxylated		No data available			
sodium silicate	LC 50	> 2.06	Rat	Method not given	
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data available			
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
sodium percarbonate	Not established	Not established	Not established	Not established
Alcohols, C16-18, ethoxylated	Not established	Not established	Not established	Not established
sodium silicate	Not established	Not established	Not established	Not established
tetrasodium (1-hydroxy ethylidene)bisphosphonate	Not established	Not established	Not established	Not established
subtilisin	Not established	Not established	Not established	Not established

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, C16-18, ethoxylated	No data available			
sodium silicate	Irritant		Method not given	
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available			
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, C16-18, ethoxylated	No data available			
sodium silicate	Irritant		Method not given	
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available			
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, C16-18, ethoxylated	No data available			
sodium silicate	Irritating to respiratory tract		Method not given	
tetrasodium (1-hydroxy ethylidene)bisphosphonate	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, C16-18, ethoxylated	No data available			
sodium silicate	Not sensitising		Method not given	
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available			
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, C16-18, ethoxylated	No data available			
sodium silicate	No data available			
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available			
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	
sodium percarbonate	No data available		No data available	
Alcohols, C16-18, ethoxylated	No data available		No data available	
sodium silicate	No evidence for mutagenicity, negative test results		No data available	
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available		No data available	
subtilisin	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 473 OECD 476 (Chinese Hamster Ovary)	No data available	

Carcinogenicity

Ingredient(s)	Effect
sodium carbonate	No evidence for carcinogenicity, weight-of-evidence
sodium percarbonate	No data available
Alcohols, C16-18, ethoxylated	No data available
sodium silicate	No evidence for carcinogenicity, negative test results
tetrasodium (1-hydroxy ethylidene)bisphosphonate	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				
sodium percarbonate			No data				
			available				
Alcohols, C16-18,			No data				
ethoxylated			available				
sodium silicate			No data				No evidence for reproductive
			available				toxicity
tetrasodium (1-hydroxy			No data				
ethylidene)bisphosphon			available				
ate							
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				unootou
sodium percarbonate		available No data				
•		available				
Alcohols, C16-18, ethoxylated		No data available				
sodium silicate	NOAEL	> 159	Rat	Method not given		
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data available				
subtilisin		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	
sodium carbonate		No data available				
sodium percarbonate		No data available				
Alcohols, C16-18, ethoxylated		No data available				
sodium silicate		No data available				
tetrasodium (1-hydroxy ethylidene)bisphosphonate		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, C16-18, ethoxylated		No data available				
sodium silicate		No data available				
tetrasodium (1-hydroxy ethylidene)bisphosphonate		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					
sodium percarbonate			No data available					
Alcohols, C16-18, ethoxylated			No data available					
sodium silicate			No data available					
tetrasodium (1-hydroxy ethylidene)bisphosphon ate			No data available					
subtilisin			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	No data available
sodium percarbonate	No data available
Alcohols, C16-18, ethoxylated	No data available
sodium silicate	No data available
tetrasodium (1-hydroxy ethylidene)bisphosphonate	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, C16-18, ethoxylated	No data available
sodium silicate	No data available
tetrasodium (1-hydroxy ethylidene)bisphosphonate	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 macrochirus	Method not given	96
sodium percarbonate	LC 50	70.7	Pimephales promelas	Method not given	96
Alcohols, C16-18, ethoxylated		No data available			
sodium silicate	LC 50	260 - 310	Oncorhynchus mykiss	Method not given	96
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data available			
subtilisin	LC 50	8.2	Fish	OECD 203 (EU C.1)	96

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, C16-18, ethoxylated		No data available			
sodium silicate	EC 50	1700	Daphnia magna Straus	OECD 202, static	48
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data available			
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
sodium percarbonate	EC 50	2.5	Chlorella vulgaris	Read across	
Alcohols, C16-18, ethoxylated		No data available			
sodium silicate	EC 50	207	Desmodesmus subspicatus	OECD 201 (EU C.3)	72
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data available			
subtilisin	Er C 50	0.830	Not specified	OECD 201 (EU C.3)	72

Aquatic short-term	toxicity -	 marine species 	5

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sodium carbonate		No data available			
sodium percarbonate		No data available			
Alcohols, C16-18, ethoxylated		No data available			
sodium silicate		No data available			
tetrasodium (1-hydroxy ethylidene)bisphosphonate		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			
sodium percarbonate	EC 50	466	Activated sludge	OECD 209	0.5 hour(s)
Alcohols, C16-18, ethoxylated		No data available			
sodium silicate		No data available			
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data available			
subtilisin		No data available			

Aquatic long-term toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure	Effects observed
sodium carbonate		(mg/l) No data available			time	
sodium percarbonate	NOEC	7.4	Pimephales promelas	Method not given	96 hour(s)	
Alcohols, C16-18, ethoxylated		No data available				
sodium silicate	NOEC	348	Brachydanio rerio	Method not given	96 hour(s)	
tetrasodium (1-hydroxy ethylidene)bisphosphonate		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				
sodium percarbonate	NOEC	2	Daphnia pulex	Method not given	48 hour(s)	
Alcohols, C16-18, ethoxylated		No data available				
sodium silicate		No data available				
tetrasodium (1-hydroxy ethylidene)bisphosphonate		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				
sodium percarbonate		No data available				
Alcohols, C16-18, ethoxylated		No data available				
sodium silicate		No data available				
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data available				
subtilisin		No data available				

Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data available				

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data				
		available				

Terrestrial toxicity - birds, if available:

- · · · ·	Value	Species	Method	Exposure time (days)	Effects observed
sodium carbonate	No data available				

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data				
		available				

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
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	Method	Evaluation	Remark
sodium carbonate	water 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			

Biodegradation Ready 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, C16-18, ethoxylated				OECD 301D	Readily biodegradable
sodium silicate					Not applicable (inorganic substance)
tetrasodium (1-hydroxy ethylidene)bisphosphonate				Weight of evidence	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 Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
sodium carbonate	No data available		No bioaccumulation expected	Kemark
sodium percarbonate	No data available			
Alcohols, C16-18, ethoxylated	No data available			
sodium silicate	No data available		Low potential for bioaccumulation	
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available			
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, C16-18, ethoxylated	No data available				
sodium silicate	No data available				
tetrasodium (1-hydroxy ethylidene)bisphosphon ate					
subtilisin	-			Not relevant, does not	

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
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, C16-18, ethoxylated	No data available				

sodium silicate	No data available		
tetrasodium (1-hydroxy ethylidene)bisphosphonate	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.

Diversey Sweden AB is registered with the FTI (collection of packagings and paper)

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

EU regulations:

- Regulation (EC) No. 1907/2006 REACH
 Regulation (EC) No 1272/2008 CLP
 Regulation (EC) No. 648/2004 Detergents regulation
- substances identified as having endocrine disrupting properties in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- · International Maritime Dangerous Goods (IMDG) Code

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

Ingredients according to EC Detergents Regulation 648/2004	
oxygen-based bleaching agents	5 - 15 %
non-ionic surfactants, phosphonates, polycarboxylates	< 5 %
enzymes, perfumes	

Seveso - Classification: Not classified

Other ingredients

CI 77891, Polymeric Red Colourant, CI 42051, CI 61585

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: MS1000975

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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, 2, 3, 6, 7, 8, 9, 11, 12, 15, 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