

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Horizon Bio

Version: 09.2

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

1.1 Product identifier Trade name: Horizon Bio

Revision: 2019-02-17

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

Identified uses: For professional use only. AISE-P102 - Laundry detergent. Semi-automatic process Uses advised against: Uses other than those identified are not recommended

1.3 Details of the supplier of the safety data sheet Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

Contact details

Diversey Ltd Weston Favell Centre, Northampton NN3 8PD, United Kingdom Tel: 01604 405311, Fax: 01604 406809 Regulatory Email: customerservice.uk@diversey.com

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible) For medical or environmental emergency only: call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Eye Irrit. 2 (H319)

2.2 Label elements



Signal word: Warning.

Hazard statements:

H319 - Causes serious eye irritation.

2.3 Other hazards

No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

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)		30-50
sodium dodecylbenzenesulphonate	246-680-4	25155-30-0	[1]	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)		3-10
disodium trisilicate	215-687-4	1344-09-8	01-2119448725-31	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)		3-10
sodium percarbonate	239-707-6	15630-89-4	01-2119457268-30	Ox. Sol. 2 (H272)		3-10

				Acute Tox. 4 (H302) Eye Dam. 1 (H318)	
Alcohols, C12-15, ethoxylated	[4]	68131-39-5	[4]	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)	0.1-1

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

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.
 [3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[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	
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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

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.

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. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters Workplace exposure limits

Air limit values, if available:

Biological limit values, if available:

Recommended monitoring procedures, if available:

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

DNEL/DMEL and PNEC values

Human exposure

DNEL 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 dodecylbenzenesulphonate	No data available	No data available	No data available	13
disodium trisilicate	-	-	-	0.8
sodium percarbonate	-	-	-	-
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available

DNEL 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 dodecylbenzenesulphonate	No data available	No data available	No data available	No data available
disodium trisilicate	No data available	-	No data available	1.59
sodium percarbonate	12.8 mg/cm ² skin	-	12.8 mg/cm ² skin	-
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available

DNEL 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 dodecylbenzenesulphonate	No data available	No data available	No data available	No data available
disodium trisilicate	No data available	-	No data available	0.8
sodium percarbonate	6.4 mg/cm ² skin	-	6.4 mg/cm ² skin	-
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available

DNEL 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 dodecylbenzenesulphonate	No data available	No data available	No data available	52
disodium trisilicate	-	-	-	5.61
sodium percarbonate	-	-	5	-
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available

DNEL 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 dodecylbenzenesulphonate	No data available	No data available	No data available	No data available
disodium trisilicate	-	-	-	1.38
sodium percarbonate	-	-	-	-
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available

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 dodecylbenzenesulphonate	No data available	No data available	No data available	No data available
disodium trisilicate	7.5	1	7.5	348
sodium percarbonate	0.035	0.035	0.035	16.24
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available

Environmental exposure - PNEC, continued				
Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
sodium carbonate	-	-	-	-
sodium dodecylbenzenesulphonate	No data available	No data available	No data available	No data available
disodium trisilicate	-	-	-	-
sodium percarbonate	-	-	-	-
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available

8.2 Exposure controls

Substance data boiling point

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: Covering activities such as filling and transfer of product to application equipment, flasks or buckets

Appropriate engineering controls: Appropriate organisational controls:	No special requirements under normal use conditions. Avoid direct contact and/or splashes where possible. Train personnel.
Personal protective equipment Eye / face protection: Hand protection: Body protection: Respiratory protection:	No special requirements under normal use conditions. No special requirements under normal use conditions. No special requirements under normal use conditions. No special requirements under normal use conditions.
Environmental exposure controls:	No special requirements under normal use conditions.
Recommended safety measures for hand	lling the <u>diluted</u> product:
Recommended maximum concentration	on (%): 1.75
Appropriate engineering controls: Appropriate organisational controls:	No special requirements under normal use conditions. No special requirements under normal use conditions.
Personal protective equipment Eye / face protection: Hand protection: Body protection: Respiratory protection:	No special requirements under normal use conditions. No special requirements under normal use conditions. No special requirements under normal use conditions. 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: Specks White	
Odour: Slightly perfumed	
Odour threshold: Not applicable	
pH: Not applicable.	
Dilution pH: ≈ 11 (10%)	ISO 4316
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

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
sodium carbonate	1600	Method not given	1013
sodium dodecylbenzenesulphonate	No data available		
disodium trisilicate	> 100	Method not given	

sodium percarbonate	Product decomposes before boiling	
Alcohols, C12-15, ethoxylated	No data available	

Method / remark

Flammability (liquid): Not applicable.
Flash point (°C): Not applicable.
Sustained combustion: Not applicable.
(UN Manual of Tests and Criteria, section 32, L.2)
Evaporation rate: Not relevant for classification of this product.
Flammability (solid, gas): Not determined
Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Vapour pressure: Not determined

Method / remark

Method / remark

OECD 109 (EU A.3)

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 dodecylbenzenesulphonate	No data available		
disodium trisilicate	No data available		
sodium percarbonate	Negligible		
Alcohols, C12-15, ethoxylated	No data available		

Vapour density: Not determined Relative density: $\approx 0.66 \ (20 \ ^\circ C)$ 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 dodecylbenzenesulphonate	No data available		
disodium trisilicate	Soluble	Method not given	20
sodium percarbonate	140	Method not given	20
Alcohols, C12-15, ethoxylated	No data available		

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

Autoignition temperature: Not determined Decomposition temperature: Not applicable. Viscosity: ≈ mPa.s (20 °C) Explosive properties: Not explosive. Oxidising properties: Not oxidising.

9.2 Other information

Surface tension (N/m): Not determined Corrosion to metals: Not determined

Substance data, dissociation constant, if available:

Method / remark

Not applicable to solids or gases

OECD 115 Not applicable to solids or gases

Ingredient(s)	Value	Method	Temperature (°C)
disodium trisilicate	9.9 - 12 (pKa)	Method not given	

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

Reacts with acids.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture data:.

Relevant calculated ATE(s): ATE - Oral (mg/kg): >2000

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

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

Acute toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sodium carbonate	LD 50	2800	Rat	Method not given	
sodium dodecylbenzenesulphonate	LD 50	650	Rat	Non guideline test Weight of evidence	
disodium trisilicate	LD 50	3400	Rat	Method not given	
sodium percarbonate	LD 50	1034	Rat	Method not given	
Alcohols, C12-15, ethoxylated	LD 50	>300 - <=2000	Rat	Method not given	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sodium carbonate	LD 50	> 2000	Rabbit	Method not given	
sodium dodecylbenzenesulphonate		No data available			
disodium trisilicate	LD 50	> 5000	Rat	Method not given	
sodium percarbonate	LD 50	> 2000	Rabbit	OECD 402 (EU B.3)	
Alcohols, C12-15, ethoxylated	LD 50	>300 - <=2000	Rabbit	Method not given	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	LC 50	2.3 (dust)	Rat	OECD 403 (EU B.2)	2
sodium dodecylbenzenesulphonate		No data available			
disodium trisilicate	LC 50	> 2.06	Rat	Method not given	
sodium percarbonate		No data available			
Alcohols, C12-15, ethoxylated		No data available			

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 dodecylbenzenesulphonate	No data available			
disodium trisilicate	Irritant		Method not given	
sodium percarbonate	Not irritant	Rabbit	Method not given	
Alcohols, C12-15, ethoxylated	Mild irritant			

Eye irritation and corrosivity				
Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	Irritant	Rabbit	Method not given	
sodium dodecylbenzenesulphonate	No data available			
disodium trisilicate	Irritant		Method not given	
sodium percarbonate	Severe damage	Rabbit	EPA OPP 81-4	
Alcohols, C12-15, ethoxylated	Severe damage			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	No data available			
sodium dodecylbenzenesulphonate	No data available			
disodium trisilicate	Irritating to respiratory tract		Method not given	
sodium percarbonate	Irritating to respiratory tract	Mouse	Method not given	
Alcohols, C12-15, ethoxylated	No data available			

Sensitisation Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sodium carbonate	Not sensitising		Method not given	
sodium dodecylbenzenesulphonate	No data available			
disodium trisilicate	Not sensitising		Method not given	
sodium percarbonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
Alcohols, C12-15, ethoxylated	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	No data available			
sodium dodecylbenzenesulphonate	No data available			
disodium trisilicate	No data available			
sodium percarbonate	No data available			
Alcohols, C12-15, ethoxylated	No data available			

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

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
sodium carbonate	No data available		No data available	
sodium dodecylbenzenesulphonate	No data available		No data available	
disodium trisilicate	No evidence for mutagenicity, negative test results		No data available	
sodium percarbonate	No data available		No data available	
Alcohols, C12-15, ethoxylated	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
sodium carbonate	No evidence for carcinogenicity, weight-of-evidence
sodium dodecylbenzenesulphonate	No data available
disodium trisilicate	No evidence for carcinogenicity, negative test results
sodium percarbonate	No data available
Alcohols, C12-15, ethoxylated	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 dodecylbenzenesulpho nate			No data available				
disodium trisilicate			No data available				No evidence for reproductive toxicity
sodium percarbonate			No data available				
Alcohols, C12-15, ethoxylated			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 dodecylbenzenesulphonate		No data available				
disodium trisilicate	NOAEL	> 159	Rat	Method not given		
sodium percarbonate		No data available				

Alcohols, C12-15, ethoxylated	No data		
	available		

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sodium carbonate		No data available				
sodium dodecylbenzenesulphonate		No data available				
disodium trisilicate		No data available				
sodium percarbonate		No data available				
Alcohols, C12-15, ethoxylated		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
Provide the second s	-				une (uays)	anecteu
sodium carbonate		No data				
		available				
sodium dodecylbenzenesulphonate		No data				
		available				
disodium trisilicate		No data				
		available				
sodium percarbonate		No data				
		available				
Alcohols, C12-15, ethoxylated		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
	Toule					ume	organs anected	
sodium carbonate			No data					
			available					
sodium			No data					
dodecylbenzenesulpho			available					
nate								
disodium trisilicate			No data					
disodium inslicate								
			available					
sodium percarbonate			No data					
			available					
Alcohols, C12-15,			No data					
ethoxylated			available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	No data available
sodium dodecylbenzenesulphonate	No data available
disodium trisilicate	No data available
sodium percarbonate	No data available
Alcohols, C12-15, ethoxylated	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	No data available
sodium dodecylbenzenesulphonate	No data available
disodium trisilicate	No data available
sodium percarbonate	No data available
Alcohols, C12-15, ethoxylated	No data available

Aspiration hazard Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

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 dodecylbenzenesulphonate		No data available			
disodium trisilicate	LC 50	260 - 310	Oncorhynchus mykiss	Method not given	96
sodium percarbonate	LC 50	70.7	Pimephales promelas	Method not given	96
Alcohols, C12-15, ethoxylated	LC 50	10	Fish	Method not given	

Aquatic short-term toxicity - crustacea					
Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	EC 50	265	Daphnia magna Straus	Method not given	96
sodium dodecylbenzenesulphonate		No data available			
disodium trisilicate	EC 50	1700	Daphnia magna Straus	Method not given	48
sodium percarbonate	EC 50	4.9	Daphnia pulex	Method not given	48
Alcohols, C12-15, ethoxylated	EC 50	10		Method not given	

Aquatic short-term toxicity - algae					
Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate		No data available			-
sodium dodecylbenzenesulphonate		No data available		Weight of evidence	
disodium trisilicate	EC 50	207	Desmodesmus subspicatus	Method not given	72
sodium percarbonate		No data available			-
Alcohols, C12-15, ethoxylated	EC 50	10		Method not given	

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sodium carbonate		No data available			-
sodium dodecylbenzenesulphonate		No data available			
disodium trisilicate		No data available			-
sodium percarbonate		No data available			-
Alcohols, C12-15, ethoxylated		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 dodecylbenzenesulphonate		No data available			
disodium trisilicate		No data available			
sodium percarbonate	EC 50	466	Activated sludge	OECD 209	0.5 hour(s)
Alcohols, C12-15, ethoxylated		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				
sodium dodecylbenzenesulphonate		No data available				
disodium trisilicate	NOEC	348	Brachydanio rerio	Method not given	96 hour(s)	
sodium percarbonate	NOEC	7.4	Pimephales promelas	Method not given	96 hour(s)	
Alcohols, C12-15, ethoxylated	NOEC	> 0.1 - <= 1.0		Method not		

		given	

Aquatic long-term toxicity - crustacea						
Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium carbonate		No data available				
sodium dodecylbenzenesulphonate		No data available				
disodium trisilicate		No data available				
sodium percarbonate	NOEC	2	Daphnia pulex	Method not given	48 hour(s)	
Alcohols, C12-15, ethoxylated	NOEC	> 0.1 - <= 1.0		Method not given		

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 dodecylbenzenesulphonate		No data available				
disodium trisilicate		No data available			-	
sodium percarbonate		No data available			-	
Alcohols, C12-15, ethoxylated	EC 50	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			-	
disodium trisilicate		No data available			-	
sodium percarbonate		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			-	
disodium trisilicate		No data available			-	
sodium percarbonate		No data available			-	

Terrestrial toxicity - birds, if available:

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

disodium trisilicate	No data available		-	
sodium percarbonate	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 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:

Biodegradation Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
sodium carbonate					Not applicable (inorganic substance)
sodium dodecylbenzenesulphonate				OECD 301E	Readily biodegradable
disodium trisilicate					Not applicable (inorganic substance)
sodium percarbonate					Not applicable (inorganic substance)
Alcohols, C12-15, ethoxylated				OECD 301B	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
sodium carbonate	No data available		No bioaccumulation expected	
sodium dodecylbenzenesulphonate	No data available			
disodium trisilicate	No data available		Low potential for bioaccumulation	
sodium percarbonate	No data available			
Alcohols, C12-15, ethoxylated	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium carbonate	No data available			No bioaccumulation expected	
sodium dodecylbenzenesulpho nate	No data available				
disodium trisilicate	No data available				
sodium percarbonate	No data available				
Alcohols, C12-15, ethoxylated	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
sodium carbonate	No data available				Potential for mobility in soil, soluble in water
sodium dodecylbenzenesulphonate	No data available				
disodium trisilicate	No data available				
sodium percarbonate	No data available				High potential for mobility in soil
Alcohols, C12-15, ethoxylated	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 Other adverse effects

No other adverse effects known.

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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods Waste from residues / unused products:

European Waste Catalogue:

Empty packaging Recommendation:

Dispose of observing national or local regulations.

20 01 29* - detergents containing dangerous substances.

SECTION 14: Transport information

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

14.1 UN number: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods

14.3 Transport hazard class(es): Non-dangerous goods

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods

14.6 Special precautions for user: Non-dangerous goods

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

SECTION 15: Regulatory information

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

EU regulations:

• Regulation (EC) No. 1907/2006 - REACH

• Regulation (EC) No 1272/2008 - CLP

• Regulation (EC) No. 648/2004 - Detergents regulation

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

UFI: 9C60-70NE-800H-NNKJ

Ingredients according to EC Detergents Regulation 648/2004

ingreatents according to Lo Detergents Regulation 040/2004	
anionic surfactants	5 - 15 %
oxygen-based bleaching agents, zeolites, non-ionic surfactants, polycarboxylates, soap	< 5 %
perfumes, optical brighteners, enzymes	

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

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: 659896

Reason for revision:

This data sheet contains changes from the previous version in section(s):, 1, 3, 4, 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.

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

H272 - May intensify fire; oxidiser.

- H302 Harmful if swallowed.
- H303 May be harmful if swallowed.
 H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye unitage
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

• AISE - The international Association for Soaps, Detergents and Maintenance Products

DNEL - Derived No Effect Limit

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- EUH CLP Specific hazard statement
- EUH CLP Specific hazard statement
 PBT Persistent, Bioaccumulative and Toxic
 PNEC Predicted No Effect Concentration
 REACH number REACH registration number, without supplier specific part
 vPvB very Persistent and very Bioaccumulative
 ATE Acute Toxicity Estimate
 LD50 Lethal Dose, 50% / Median Lethal dose
 LC50 Lethal Concentration, 50% / Median Lethal Concentration
 EC50 effective concentration, 50%
 NOEL No observed effect level
 NOAEL No observed adverse effect level

- NOAEL No observed adverse effect level
 OECD Organization for Economic Cooperation and Development

End of Safety Data Sheet