# Safety Data Sheet





# **Horizon Bio**

**Revision:** 2020-04-12 **Version:** 09.3

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

#### 1.1 Product identifier

Trade name: Horizon Bio

# 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)		10-20
sodium percarbonate	239-707-6	15630-89-4	01-2119457268-30	Ox. Sol. 2 (H272) Acute Tox. 4 (H302) Eye Dam. 1 (H318)		3-10
sodium silicate	215-687-4	1344-09-8	01-2119448725-31	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)		3-10
sodium alkylbenzenesulphonate	290-656-6	[1]	[1]	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)		3-10

alkyl alcohol ethoxylate	[4]	69011-36-5	[4]	Acute Tox. 4 (H302)	1-3
				Eve Dam. 1 (H318)	

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.

[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. 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 percarbonate	-	-	-	-
sodium silicate	-	-	-	0.8
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	=	-

DNEL dermal exposure - Worker

BITEE dollinal expectate Tremel				
Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects (mg/kg bw)	effects	effects (mg/kg bw)
sodium carbonate	•	-	No data available	-
sodium percarbonate	12.8 mg/cm <sup>2</sup> skin	-	12.8 mg/cm <sup>2</sup> skin	-
sodium silicate	No data available	-	No data available	1.59
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-

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 percarbonate	6.4 mg/cm <sup>2</sup> skin	-	6.4 mg/cm <sup>2</sup> skin	-
sodium silicate	No data available	-	No data available	0.8
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	=	-

DNEL 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	-
sodium percarbonate		-	5	-
sodium silicate	-	-	-	5.61
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	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 percarbonate	-	-	-	-
sodium silicate	-	-	-	1.38
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	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 percarbonate	0.035	0.035	0.035	16.24
sodium silicate	7.5	1	7.5	348
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
sodium carbonate	-	-	-	-

sodium percarbonate	-	-	-	-
sodium silicate	-	-	-	-
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-

#### 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 undiluted product:

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

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

Personal protective equipment

**Environmental exposure controls:** 

No special requirements under normal use conditions. Eye / face protection: 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.

# 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: NA from White to Blue Odour: Slightly perfumed Odour threshold: Not applicable pH Not applicable

Melting point/freezing point (°C): Not determined

Not relevant to classification of this product

No special requirements under normal use conditions.

Initial boiling point and boiling range (°C): Not determined Not applicable to solids or gases

Substance data, boiling point

**Dilution pH:** ≈ 11 (10%)

Ingredient(s)	Value	Method	Atmospheric pressure
	(°C)		(hPa)
sodium carbonate	1600	Method not given	1013
sodium percarbonate	Product decomposes before boiling		
sodium silicate	> 100	Method not given	
sodium alkylbenzenesulphonate	No data available		
alkyl alcohol ethoxylate	> 200	Method not given	

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 determined Flammability (solid, gas): Not determined

Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Not relevant to classification of this product

Method / remark See substance data

Substance data, vapour pressure

Vapour pressure: Not determined

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sodium carbonate	Negligible		
sodium percarbonate	Negligible		
sodium silicate	No data available		
sodium alkylbenzenesulphonate	No data available		
alkyl alcohol ethoxylate	Negligible	Method not given	20-25

Method / remark

Vapour density: Not determined Relative density: ≈ 0.82 (20 °C)

Solubility in / Miscibility with Water: Soluble

Not relevant to classification of this product

OECD 109 (EU A.3)

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
sodium silicate	Soluble	Method not given	20
sodium alkylbenzenesulphonate	No data available		
alkyl alcohol ethoxylate	Soluble	Method not given	20

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

Method / remark

Autoignition temperature: Not determined

Decomposition temperature: Not applicable. Viscosity: Not determined

Explosive properties: Not explosive. Oxidising properties: Not oxidising.

Not applicable to solids or gases

9.2 Other information

Surface tension (N/m): Not determined

Not relevant to classification of this product Corrosion to metals: Not determined Not applicable to solids or gases

Substance data dissociation constant if available:

Ingredient(s)	Value	Method	Temperature (°C)
sodium silicate	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 Eye irritation and corrosivity

Method: Weight of evidence Result: Eye irritant 2

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

#### Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure
		(mg/kg)			time (h)
sodium carbonate	LD 50	2800	Rat	Method not given	
sodium percarbonate	LD 50	1034	Rat	Method not given	
sodium silicate	LD 50	3400	Rat	Method not given	
sodium alkylbenzenesulphonate	LD 50	> 1470	Rat	OECD 401 (EU B.1)	

alkyl alcohol ethoxylate	LD 50	> 300-2000	) R	at	OECD 423 (EU	B.1 tris)	
Acute dermal toxicity	•				•		
Ingredient(s)	Endpoint	Value (mg/kg)	Spe	cies	Method		Exposure time (h)
sodium carbonate	LD 50	> 2000	Ral	bbit	Method not g	given	
sodium percarbonate	LD 50	> 2000	Ral	bbit	OECD 402 (E	U B.3)	
sodium silicate	LD 50	> 5000	R	at	Method not g	given	
sodium alkylbenzenesulphonate		No data available					
alkyl alcohol ethoxylate	LD 50	> 2000	Ral	bbit	Method not g	given	
cute inhalative toxicity							
Ingredient(s)	Endpoint	Value (mg/l)	Spe	ecies Meth			Exposure time (h)
sodium carbonate	LC 50	> 2.3 (dust)	)		Weight of evidence		2
sodium percarbonate		No data available					
sodium silicate	LC 50	> 2.06 No mortality observed	R	Rat Non guideline		e test	
sodium alkylbenzenesulphonate		No data available					
alkyl alcohol ethoxylate		No data available					
ritation and corrosivity kin irritation and corrosivity							
Ingredient(s)	Resul	t S	pecies		Method	Expo	sure time
sodium carbonate	Not irrit	ant f	Rabbit	OEC	D 404 (EU B.4)		
sodium percarbonate	Not irrit	ant f	Rabbit	Me	thod not given		
sodium silicate	Irritan	nt		Ме	thod not given		
sodium alkylbenzenesulphonate	No data av	ailable			_		
alkyl alcohol ethoxylate	Not irrit	ant f	Rabbit	OEC	D 404 (EU B.4)		

Eye irritation and corrosivity				
Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	Irritant	Rabbit	Method not given	
sodium percarbonate	Severe damage	Rabbit	EPA OPP 81-4	
sodium silicate	Severe damage		Method not given	
sodium alkylbenzenesulphonate	No data available			
alkyl alcohol ethoxylate	Severe damage	Rabbit	Method not given	

Respiratory tract irritation and corrosivity Ingredient(s)
sodium carbonate Result Species Method Exposure time No data available sodium percarbonate Irritating to Mouse Method not given respiratory tract sodium silicate Irritating to Method not given respiratory tract sodium alkylbenzenesulphonate No data available alkyl alcohol ethoxylate No data available

# Sensitisation

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	
sodium silicate	Not sensitising		Method not given	
sodium alkylbenzenesulphonate	No data available			
alkyl alcohol ethoxylate	Not sensitising	Guinea pig	Method not given	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	No data available			
sodium percarbonate	No data available			
sodium silicate	No data available			
sodium alkylbenzenesulphonate	No data available			
alkyl alcohol ethoxylate	No data available			

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

Ingredient(s)	Result (in-vitro)	Result (in-vitro) Method Re (in-vitro)		Method (in-vivo)
sodium carbonate	No data available		No data available	
sodium percarbonate	No data available		No data available	
sodium silicate	No evidence for mutagenicity, negative		No data available	

	test results		
sodium alkylbenzenesulphonate	No data available	No data available	
, , ,	No evidence of genotoxicity, negative test results	No evidence of genotoxicity, negative test results	Method not given

Carcinogenicity

Ingredient(s)	Effect
sodium carbonate	No evidence for carcinogenicity, weight-of-evidence
sodium percarbonate	No data available
sodium silicate	No evidence for carcinogenicity, negative test results
sodium alkylbenzenesulphonate	No data available
alkyl alcohol ethoxylate	No evidence for carcinogenicity, weight-of-evidence

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				
sodium silicate			No data available				No evidence for reproductive toxicity
sodium alkylbenzenesulphonat e			No data available				
alkyl alcohol ethoxylate	NOAEL	Teratogenic effects	> 50	Rat	Not known		No known significant effects or critical hazards

# Repeated dose toxicity Sub-acute or sub-chronic oral

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				
sodium silicate	NOAEL	> 159	Rat	Method not given	180	No effects observed
sodium alkylbenzenesulphonate		No data available				
alkyl alcohol ethoxylate		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 percarbonate		No data available				
sodium silicate		No data available				
sodium alkylbenzenesulphonate		No data available				
alkyl alcohol ethoxylate		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				
sodium silicate		No data available				
sodium alkylbenzenesulphonate		No data available				
alkyl alcohol ethoxylate		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					
sodium silicate			No data available					
sodium alkylbenzenesulphonat e			No data available					
alkyl alcohol ethoxylate	Oral	NOAEL	50	Rat	Method not given	24 month(s)	Effects on organ weights	

STOT-single exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	No data available
sodium percarbonate	No data available
sodium silicate	No data available
sodium alkylbenzenesulphonate	No data available
alkyl alcohol ethoxylate	Not applicable

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	No data available
sodium percarbonate	No data available
sodium silicate	Not applicable
sodium alkylbenzenesulphonate	No data available
alkyl alcohol ethoxylate	Not applicable

#### **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.

# **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
sodium silicate	LC 50	1108	Brachydanio rerio	Method not given	96
sodium alkylbenzenesulphonate		No data available			
alkyl alcohol ethoxylate	LC 50	1 - 10	Cyprinus carpio	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	265	Daphnia magna Straus	Method not given	96
sodium percarbonate	EC 50	4.9	Daphnia pulex	Method not given	48
sodium silicate	EC 50	1700	Daphnia magna Straus	Method not given	48
sodium alkylbenzenesulphonate		No data available			
alkyl alcohol ethoxylate	EC 50	1 - 10	Daphnia magna Straus	OECD 202, static	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate		No data available			-
sodium percarbonate		No data available			-
sodium silicate	EC 50	207	Desmodesmus subspicatus	Method not given	72
sodium alkylbenzenesulphonate		No data available			
alkyl alcohol ethoxylate	EC 50	1 - 10	Desmodesmus subspicatus	OECD 201, static	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sodium carbonate		No data available			-
sodium percarbonate		No data available			-
sodium silicate		No data available			-
sodium alkylbenzenesulphonate		No data			

		available			
alkyl alcohol ethoxylate		No data available			-
npact 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)
sodium silicate		No data available			
sodium alkylbenzenesulphonate		No data available			
alkyl alcohol ethoxylate	EC 10	> 10000	Activated sludge	DIN 38412 / Part 8	17 hour(s)

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium carbonate		No data available				
sodium percarbonate	NOEC	7.4	Pimephales promelas	Method not given	96 hour(s)	
sodium silicate	NOEC	348	Brachydanio rerio	Method not given	96 hour(s)	
sodium alkylbenzenesulphonate		No data available				
alkyl alcohol ethoxylate		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)	
sodium silicate		No data available				
sodium alkylbenzenesulphonate		No data available				
alkyl alcohol ethoxylate		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			-	
sodium silicate		No data available			-	
sodium alkylbenzenesulphonate		No data available				
alkyl alcohol ethoxylate		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			-	
sodium percarbonate		No data available			-	
sodium silicate		No data available			-	
alkyl alcohol ethoxylate	NOEC	220	Eisenia fetida		-	

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			-	
sodium percarbonate		No data available			-	
sodium silicate		No data available			-	
alkyl alcohol ethoxylate	NOEC	10	Lepidium	OECD 208	-	

			sativum				
rrestrial toxicity - birds, if available:							
Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed	
sodium carbonate		No data available			-		
sodium percarbonate		No data available			-		
sodium silicate		No data available			-		
alkyl alcohol ethoxylate		No data			-		

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			-	
sodium percarbonate		No data available			-	
sodium silicate		No data available			-	
alkyl alcohol ethoxylate		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			-	
sodium percarbonate		No data available			-	
sodium silicate		No data available			-	
alkyl alcohol ethoxylate		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

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
sodium carbonate					Not applicable (inorganic substance)
sodium percarbonate					Not applicable (inorganic substance)
sodium silicate					Not applicable (inorganic substance)
sodium alkylbenzenesulphonate				OECD 301B	Readily biodegradable
alkyl alcohol ethoxylate	Activated sludge, aerobe	CO <sub>2</sub> production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

rantition coefficient n-octanol/water (log r	(OW)			
Ingredient(s)	Value	Method	Evaluation	Remark
sodium carbonate	No data available		No bioaccumulation expected	
sodium percarbonate	No data available			
sodium silicate	No data available		Low potential for bioaccumulation	
sodium alkylbenzenesulphonate	No data available			
alkyl alcohol ethoxylate	-		No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium carbonate	No data available			No bioaccumulation expected	

sodium percarbonate	No data available			
sodium silicate	No data available			
sodium alkylbenzenesulphonat e	No data available			
alkyl alcohol ethoxylate	-		No bioaccumulation expected	

#### 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
sodium silicate	No data available				
sodium alkylbenzenesulphonate	No data available				
alkyl alcohol ethoxylate	No data available				Immobile in soil or sediment

#### 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.

# SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused

**European Waste Catalogue:** 

products:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging

material is suitable for energy recovery or recycling in line with local legislation. 20 01 29\* - detergents containing dangerous substances.

Empty packaging

Recommendation:

Dispose of observing national or local regulations.

# **SECTION 14: Transport information**

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

14.1 UN number: 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

oxygen-based bleaching agents anionic surfactants, non-ionic surfactants, zeolites perfumes, optical brighteners, enzymes 5 - 15 % < 5 %

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

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#### Reason for revision:

This data sheet contains changes from the previous version in section(s):, 3, 6, 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:

- H225 Highly flammable liquid and vapour.
  H226 Flammable liquid and vapour.
- H272 May intensify fire; oxidiser.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H311 Toxic in contact with skin.
- · H312 Harmful in contact with skin.
- H315 Causes skin irritation. H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- · H320 Causes eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- · H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- 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
- 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
- OECD Organization for Economic Cooperation and Development

**End of Safety Data Sheet**