

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Unifoam VF34

Revision: 2024-08-07

Version: 13.0

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

1.1 Product identifier

Trade name: Unifoam VF34

UFI: SPW3-Y0MJ-M005-0466

1.2 Relevant identified uses of the substance or mixture and uses advised against Product use: Open plant cleaning chemical. Exclusion of the substance or mixture and uses advised against

Uses advised against:

Open plant cleaning chemical. For industrial use only.. Uses other than those identified are not recommended.

SWED - Sector-specific worker exposure description : AISE_SWED_IS_1_1 AISE_SWED_IS_8b_1 AISE_SWED_IS_4_1 AISE_SWED_IS_7_4 AISE_SWED_IS_7_5

1.3 Details of the supplier of the safety data sheet Diversey Europe Operations BV, De Corridor 4, 3621ZB Breukelen [Maarssenbroeksedijk 2, 3542DN Utrecht], The Netherlands

Contact details

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

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Skin corrosion, Category 1A (H314) Serious eye damage, Category 1 (H318) Corrosive to metals, Category 1 (H290)

2.2 Label elements



Signal word: Danger.

Contains sodium hydroxide (Sodium Hydroxide), potassium hydroxide (Potassium Hydroxide), alkyl polyglucoside (2-ethylhexyl glucoside), sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts (Sodium C14-16 Olefin Sulfonate), sulphonic acids, C14-17-sec-alkane, sodium salts (Sodium C14-17 Alkyl Sec Sulfonate)

Hazard statements:

H314 - Causes severe skin burns and eye damage. H290 - May be corrosive to metals.

Precautionary statements:

P280 - Wear protective gloves, protective clothing and eye or face protection.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTRE, doctor or physician.

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 hydroxide	215-185-5	1310-73-2		Skin corrosion, Category 1A (H314) Corrosive to metals, Category 1 (H290)		10-20
tetrasodium ethylene diamine tetraacetate	200-573-9	64-02-8	2-27	Acute toxicity - Oral, Category 4 (H302) Acute toxicity - Inhalation, Category 4 (H332) Specific target organ toxicity - Repeated exposure, Category 2 (H373) Serious eye damage, Category 1 (H318)		3-10
potassium hydroxide	215-181-3	1310-58-3	6-33	Skin corrosion, Category 1A (H314) Acute toxicity - Oral, Category 4 (H302) Corrosive to metals, Category 1 (H290)		1-3
alkyl polyglucoside	414-420-0	161074-93-7	01-00001614 7-72 01-211998714 4-31	Serious eye damage, Category 1 (H318)		1-3
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	931-534-0	-		Skin irritation, Category 2 (H315) Serious eye damage, Category 1 (H318) Chronic aquatic toxicity, Category 3 (H412)		1-3
sulphonic acids, C14-17-sec-alkane, sodium salts	307-055-2	97489-15-1	4-20	Acute toxicity - Oral, Category 4 (H302) Skin irritation, Category 2 (H315) Serious eye damage, Category 1 (H318) Chronic aquatic toxicity, Category 3 (H412)		1-3
sodium cumenesulphonate	239-854-6	-	01-211948941 1-37	Eye irritation, Category 2 (H319)		1-3

Specific concentration limits

sodium hydroxide:

socium nyaroxiae: • Corrosive to metals, Category 1 (H290) >= 0.5% • Serious eye damage, Category 1 (H318) >= 3% > Eye irritation, Category 2 (H319) >= 0.5% • Skin corrosion, Category 1A (H314) >= 5% > Skin corrosion, Category 1B (H314) >= 2% > Skin irritation, Category 2 (H315) >= 0.5% • potassium bydroxide:

potassium hydroxide:

Corrosive to metals, Category 1 (H290) >= 2%
Serious eye damage, Category 1 (H318) >= 2% > Eye irritation, Category 2 (H319) >= 1%

• Skin corrosion, Category 1Å (H314) >= 5% > Skin corrosion, Category 1B (H314) >= 2% > Skin irritation, Category 2 (H315) >= 0.5%

sulphonic acids, C14-17-sec-alkane, sodium salts:

• Serious eye damage, Category 1 (H318) >= 15% > Eye irritation, Category 2 (H319) >= 10%

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 **General Information:**

	irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.
Inhalation:	Get medical attention or advice if you feel unwell.
Skin contact:	Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off
	immediately all contaminated clothing and wash it before reuse. Immediately call a POISON
	CENTRE, doctor or physician.
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. Immediately call a POISON CENTRE,
	doctor or physician.
Ingestion:	Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious
ingeotioni	person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or
	physician.
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Self-protection of first aider:	Consider personal protective equipment as indicated in subsection 8.2.
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4.2 Most important symptoms and e	
Inhalation:	No known effects or symptoms in normal use.
Skin contact:	Causes severe burns.
Eye contact:	Causes severe or permanent damage.
Ingestion:	Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of
U	oesophagus and stomach.

If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing. Wear suitable gloves. Wear eye/face protection.

6.2 Environmental precautions

Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up

Dyke to collect large liquid spills. Use neutralising agent. Absorb with liquid-binding material (sand, diatomite, universal binders). 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 face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters Workplace exposure limits

Air limit values, if available:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
sodium hydroxide		2 mg/m ³
potassium hydroxide		2 mg/m ³

Biological limit values, if available:

Recommended monitoring procedures, if available:

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

DNEL/DMEL and PNEC values

Human exposure

numan 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 hydroxide	-	-	-	-
tetrasodium ethylene diamine tetraacetate	-	-	-	25
potassium hydroxide	-	-	-	-
alkyl polyglucoside	-	-	-	0.75
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	-	-	-	12.95
sulphonic acids, C14-17-sec-alkane, sodium salts	-	-	-	7.1
sodium cumenesulphonate	-	-	-	1.14

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 hydroxide	2 %	-	-	-
tetrasodium ethylene diamine tetraacetate	-	-	-	-
potassium hydroxide	No data available	-	No data available	-
alkyl polyglucoside	No data available	-	No data available	1.5
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	No data available	-	No data available	2158.33
sulphonic acids, C14-17-sec-alkane, sodium salts	2.8 mg/cm ² skin	-	2.8 mg/cm ² skin	5
sodium cumenesulphonate	No data available	-	No data available	7.6

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 hydroxide	2 %	-	-	-
tetrasodium ethylene diamine tetraacetate	-	-	-	-
potassium hydroxide	No data available	-	No data available	-
alkyl polyglucoside	No data available	-	No data available	0.75
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	No data available	-	No data available	1295
sulphonic acids, C14-17-sec-alkane, sodium salts	2.8 mg/cm ² skin	-	2.8 mg/cm ² skin	3.57
sodium cumenesulphonate	No data available	-	No data available	3.8

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 hydroxide	-	-	1	-
tetrasodium ethylene diamine tetraacetate	3	3	1.5	1.5
potassium hydroxide	-	-	1	-
alkyl polyglucoside	-	-	-	10.6
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	-	-	-	152.22
sulphonic acids, C14-17-sec-alkane, sodium salts	-	-	-	35
sodium cumenesulphonate	-	-	-	53.6

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 hydroxide	-	-	1	-
tetrasodium ethylene diamine tetraacetate	1.2	1.2	0.6	-
potassium hydroxide	-	-	1	-
alkyl polyglucoside	-	-	-	2.6
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	-	-	-	45.04
sulphonic acids, C14-17-sec-alkane, sodium salts	-	-	-	12.4
sodium cumenesulphonate	-	-	-	13.2

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 hydroxide	-	-	-	-
tetrasodium ethylene diamine tetraacetate	2.2	0.22	1.2	43
potassium hydroxide	-	-	-	-
alkyl polyglucoside	0.098	0.0098	0.98	-
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	0.024	0.0024	0.0197	4

sulphonic acids, C14-17-sec-alkane, sodium salts	0.04	0.004	0.06	600
sodium cumenesulphonate	0.23	0.023	2.3	100

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
sodium hydroxide	-	-	-	-
tetrasodium ethylene diamine tetraacetate	-	-	0.72	-
potassium hydroxide	-	-	-	-
alkyl polyglucoside	980	98	17.6	-
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	0.767	0.0767	1.21	-
sulphonic acids, C14-17-sec-alkane, sodium salts	9.4	0.94	9.4	-
sodium cumenesulphonate	0.862	0.086	0.037	-

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

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

Appropriate engineering controls:If the product is diluted by using specific dosing systems with no risk of splashes or direct skin
contact, the personal protection equipment as described in this section is not required. Where
possible: use in automated/closed system and cover open containers. Transport over pipes. Filling
with automatic systems. Use tools for manual handling of product.Appropriate organisational controls:Avoid direct contact and/or splashes where possible. Train personnel.

REACH use scenarios considered for the undiluted product:

	SWED - Sector-specific	LCS	PROC	Duration	ERC
	worker exposure			(min)	
	description				
Automatic application in a dedicated closed system	AISE_SWED_IS_1_1	IS	PROC 1	480	ERC4
Automatic transfer and dilution	AISE_SWED_IS_8b_1	IS	PROC 8b	60	ERC4

Personal protective equipment

i ersonal protective equipment	
Eye / face protection:	Safety glasses or goggles (EN 16321 / EN 166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.
Hand protection:	Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature. Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm
	Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm
	In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.
Body protection:	No special requirements under normal use conditions. Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).
Respiratory protection:	If exposure to liquid particles or splashes cannot be avoided use: half mask (EN 140) with particle filter P2 (EN 143) or full-face mask (EN 136) with particle filter P1 (EN 143) Consider specific local use conditions. In consultation with the supplier of respiratory protection equipment a different type providing similar protection may be chosen. Specific applications tools may be available to limit exposure. Please refer to the product information sheet for the possibilities.
Environmental exposure controls:	Should not reach sewage water or drainage ditch undiluted or unneutralised.

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

Recommended maximum concentration (% w/w): 5

Appropriate engineering controls: Provide a good standard of general ventilation. Ensure that foam equipment does not generate respirable particles. Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

REACH use scenarios considered for the diluted product:

	SWED	LCS	PROC	Duration (min)	ERC
Automatic application in a dedicated system	AISE_SWED_IS_4_1	IS	PROC 4	480	ERC8a
Foam spraying	AISE_SWED_IS_7_4	IS	PROC 7	480	ERC4

Spray application		AISE_SWED_IS_7_5				
Personal protective equipment						
Eye / face protection:	splashes may	s are not normally required. Hoccur when handling the pro N 166) are always recomme	duct (EN 1632	21 / EN 166). S		
Hand protection:	supplier. Cons temperature.	ons regarding permeability a sider specific local use condit	ions, such as i	risk of splashe	es, cuts, contac	t time and
	thickness: ≥ 0	oves for prolonged contact: N .7 mm	laterial: butyl r	ubber Penetra	$1000 \text{ time} \ge 480$	u min Material
		n with the supplier of protection nemical-resistant protective g				
Body protection: Respiratory protection:		uirements under normal use otection is not normally requ Id be avoided.		inhalation of	vapour, spray,	gas or

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: Liquid Colour: Clear , Yellow Odour: Product specific Odour threshold: Not applicable Melting point/freezing point (°C): Not determined Initial boiling point and boiling range (°C): Not determined

Not relevant to classification of this product See substance data

Method / remark

Method / remark

Not relevant to classification of this product

ISO 4316

ISO 4316

Substance data, boiling point			
Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
sodium hydroxide	> 990	Method not given	
tetrasodium ethylene diamine tetraacetate	No data available	Non-experimental data	
potassium hydroxide	Not applicable to solids or gases	Method not given	
alkyl polyglucoside	No data available		
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	No data available		
sulphonic acids, C14-17-sec-alkane, sodium salts	> 100	Method not given	
sodium cumenesulphonate	> 100	Method not given	

	Method / remark
Flammability (solid, gas): Not applicable to liquids	
Flammability (liquid): Not flammable.	
Flash point (°C): > 93 °C	closed cup
Sustained combustion: Not applicable.	
(UN Manual of Tests and Criteria, section 32, L.2)	
Lower and upper explosion limit/flammability limit (%): Not determined	

Substance data, flammability or explosive limits, if available:

Autoignition temperature: Not determined Decomposition temperature: Not applicable. pH: > 11 (neat) Dilution pH: > 11 (5 %) Kinematic viscosity: Not determined Solubility in / Miscibility with water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value	Method	Temperature
	(g/l)		(°C)
sodium hydroxide	1000	Method not given	20
tetrasodium ethylene diamine tetraacetate	500	Method not given	20
potassium hydroxide	No data available		
alkyl polyglucoside	No data available		
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Soluble	Method not given	20

sulphonic acids, C14-17-sec-alkane, sodium salts	500	Method not given	25
sodium cumenesulphonate	Soluble		

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

Vapour pressure: Not determined

Method / remark

See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sodium hydroxide	< 1330	Method not given	20
tetrasodium ethylene diamine tetraacetate	0.000000002	Read across	25
potassium hydroxide	Negligible	Method not given	
alkyl polyglucoside	No data available		
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	< 0.001	Method not given	25
sulphonic acids, C14-17-sec-alkane, sodium salts	3000	Method not given	25
sodium cumenesulphonate	No data available		

Relative density: ≈ 1.23 (20 °C) Relative vapour density: No data available. Particle characteristics: No data available.

9.2 Other information

9.2.1 Information with regard to physical hazard classes
Explosive properties: Not explosive.
Oxidising properties: Not oxidising.
Corrosion to metals: Corrosive

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

May be corrosive to metals. Reacts with acids.

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 ATE - Inhalatory, mists (mg/l): >5

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

Acute toxicity Acute oral toxicity

Method / remark OECD 109 (EU A.3)

Not relevant to classification of this product Not applicable to liquids.

Weight of evidence

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Oral (mg/kg)
sodium hydroxide		No data available				Not established
tetrasodium ethylene diamine tetraacetate	LD 50	1780	Rat	OECD 401 (EU B.1)		1780
potassium hydroxide	LD 50	333	Rat	OECD 425		333
alkyl polyglucoside	LD 50	> 2000 - 5000	Rat	OECD 401 (EU B.1)		Not established
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	LD 50	> 2000	Rat	OECD 401 (EU B.1)		Not established
sulphonic acids, C14-17-sec-alkane, sodium salts	LD 50	> 500-2000	Rat	OECD 401 (EU B.1)		500
sodium cumenesulphonate	LD 50	> 7000	Rat	Method not given		Not established

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Dermal (mg/kg)
sodium hydroxide	LD 50	1350	Rabbit	Method not given		Not established
tetrasodium ethylene diamine tetraacetate	LD 50	> 5000	Rabbit	Method not given		Not established
potassium hydroxide		No data available				Not established
alkyl polyglucoside	LD 50	> 5000	Rat	OECD 402 (EU B.3)		Not established
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	LD 50	6300	Rabbit	OECD 402 (EU B.3)		Not established
sulphonic acids, C14-17-sec-alkane, sodium salts	LD 50	> 2000	Mouse	Weight of evidence		Not established
sodium cumenesulphonate	LD 50	> 2000	Rabbit	Method not given		Not established

Acute inhalative toxicity					
Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hydroxide		No data available			
tetrasodium ethylene diamine tetraacetate	LC 50	≥ 1-5 (dust)	Rat	OECD 403 (EU B.2)	6
potassium hydroxide		No data available			
alkyl polyglucoside		No data available			
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	LC 50	> 52 (mist)	Rat	OECD 403 (EU B.2)	4
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available			
sodium cumenesulphonate	LC 50	> 770	Rat	Method not given	4

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 hydroxide	Not established	Not established	Not established	Not established
tetrasodium ethylene diamine tetraacetate	Not established	15	Not established	Not established
potassium hydroxide	Not established	Not established	Not established	Not established
alkyl polyglucoside	Not established	Not established	Not established	Not established
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Not established	Not established	Not established	Not established
sulphonic acids, C14-17-sec-alkane, sodium salts	Not established	Not established	Not established	Not established
sodium cumenesulphonate	Not established	Not established	Not established	Not established

Irritation and corrosivity Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium hydroxide	Corrosive	Rabbit	Method not given	
tetrasodium ethylene diamine tetraacetate	Not irritant	Rabbit	OECD 404 (EU B.4)	
potassium hydroxide	Corrosive	Rabbit	Draize test	
alkyl polyglucoside	No data available			
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Irritant	Rabbit	OECD 404 (EU B.4)	
sulphonic acids, C14-17-sec-alkane, sodium salts	Irritant	Rabbit	OECD 404 (EU B.4) Read across	
sodium cumenesulphonate	Mild irritant	Rabbit	OECD 404 (EU B.4)	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium hydroxide	Corrosive	Rabbit	Method not given	
tetrasodium ethylene diamine tetraacetate	Severe damage		Method not given	
potassium hydroxide	Corrosive	Rabbit	Method not given	
alkyl polyglucoside	Severe damage	Rabbit	OECD 405 (EU B.5)	

sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Severe damage	Rabbit	OECD 405 (EU B.5)	
sulphonic acids, C14-17-sec-alkane, sodium salts	Severe damage		OECD 405 (EU B.5)	
sodium cumenesulphonate	Irritant	Rabbit	OECD 405 (EU B.5)	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium hydroxide	No data available			
tetrasodium ethylene diamine tetraacetate	No data available			
potassium hydroxide	No data available			
alkyl polyglucoside	No data available			
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	No data available			
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available			
sodium cumenesulphonate	No data available			

Sensitisation Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sodium hydroxide	Not sensitising		Human repeated patch test	
tetrasodium ethylene diamine tetraacetate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
potassium hydroxide	Not sensitising	Guinea pig	Method not given	
alkyl polyglucoside	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
sulphonic acids, C14-17-sec-alkane, sodium salts	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT Read across	
sodium cumenesulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium hydroxide	No data available			
tetrasodium ethylene diamine tetraacetate	No data available			
potassium hydroxide	No data available			
alkyl polyglucoside	No data available			
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	No data available			
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available			
sodium cumenesulphonate	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 hydroxide	No evidence for mutagenicity, negative test results	1 1	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12) OECD 475 (EU B.11)
tetrasodium ethylene diamine tetraacetate	No evidence for mutagenicity, negative test results		No evidence of genotoxicity, negative test results	Method not given
potassium hydroxide	No evidence for mutagenicity, negative test results	Method not given	No data available	
alkyl polyglucoside	No data available		No data available	
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	No evidence for mutagenicity, negative test results		No evidence for mutagenicity, negative test results	Method not given
sulphonic acids, C14-17-sec-alkane, sodium salts	No evidence for mutagenicity, negative test results		No evidence for mutagenicity, negative test results	Method not given
sodium cumenesulphonate	No evidence for mutagenicity, negative test results		No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)

Carcinogenicity

Ingredient(s)	Effect
sodium hydroxide	No evidence for carcinogenicity, weight-of-evidence
tetrasodium ethylene diamine tetraacetate	No evidence for carcinogenicity, weight-of-evidence
potassium hydroxide	No evidence for carcinogenicity, negative test results
alkyl polyglucoside	No data available
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	No evidence for carcinogenicity, negative test results
sulphonic acids, C14-17-sec-alkane, sodium salts	No evidence for carcinogenicity, negative test results
sodium cumenesulphonate	No evidence for carcinogenicity, negative test results

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
sodium hydroxide			No data available				No evidence for developmental toxicity No evidence for reproductive toxicity
tetrasodium ethylene diamine tetraacetate			No data available				No evidence for reproductive toxicity
potassium hydroxide			No data available				No evidence for reproductive toxicity
alkyl polyglucoside			No data available				
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts			No data available				No evidence for teratogenic effects
sulphonic acids, C14-17-sec-alkane, sodium salts			No data available				No evidence for reproductive toxicity
sodium cumenesulphonate	NOAEL	Teratogenic effects	> 3000	Rat	Non guideline test		

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 hydroxide		No data available				
tetrasodium ethylene diamine tetraacetate		No data available				
potassium hydroxide		No data available				
alkyl polyglucoside		No data available				
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts		No data available				
sulphonic acids, C14-17-sec-alkane, sodium salts	NOAEL	200	Rat	Method not given		
sodium cumenesulphonate	NOAEL	763 - 3534		OECD 408 (EU B.26)	90	

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sodium hydroxide		No data				
		available				
tetrasodium ethylene diamine tetraacetate		No data				
		available				
potassium hydroxide		No data				
		available				
alkyl polyglucoside		No data				
		available				
sulphonic acids, C14-16-alkane hydroxy and		No data				
C14-16-alkene, sodium salts		available				
sulphonic acids, C14-17-sec-alkane, sodium salts		No data				
		available				
sodium cumenesulphonate	NOAEL	440	Mouse	Method not	90	
				given		

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sodium hydroxide		No data available				
tetrasodium ethylene diamine tetraacetate		No data available				
potassium hydroxide		No data available				
alkyl polyglucoside		No data available				
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts		No data available				
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available				
sodium cumenesulphonate		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 hydroxide			No data available				- g	
tetrasodium ethylene diamine tetraacetate			No data available					
potassium hydroxide			No data available					
alkyl polyglucoside			No data available					
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Oral	NOAEL	259	Rat	Method not given	24 month(s)		
sulphonic acids, C14-17-sec-alkane, sodium salts	Oral	NOAEL	> 4000	Rat	Method not given			
sodium cumenesulphonate	Dermal	NOAEL	727	Mouse	Method not given	24 month(s)		

STOT-single exposure

Ingredient(s)	Affected organ(s)
sodium hydroxide	No data available
tetrasodium ethylene diamine tetraacetate	No data available
potassium hydroxide	No data available
alkyl polyglucoside	No data available
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	No data available
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available
sodium cumenesulphonate	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sodium hydroxide	No data available
tetrasodium ethylene diamine tetraacetate	Respiratory tract
potassium hydroxide	No data available
alkyl polyglucoside	No data available
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	No data available
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available
sodium cumenesulphonate	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 .

<u>Substance data</u>, 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 hydroxide	LC 50	35	Various species	Method not given	96
tetrasodium ethylene diamine tetraacetate	LC 50	> 100	Lepomis macrochirus	OPP 72-1, static (EPA)	96
potassium hydroxide	LC 50	80	Various species	Weight of evidence	24
alkyl polyglucoside	LC 50	> 310	Oncorhynchus	Method not given	96

			mykiss		
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	LC 50	4.2	Brachydanio rerio	OECD 203 (EU C.1)	96
sulphonic acids, C14-17-sec-alkane, sodium salts	LC 50	1 - 10	Brachydanio rerio	OECD 203, static	96
sodium cumenesulphonate	LC 50	> 1000	Fish	EPA-OPPTS 850.1075	96

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hydroxide	EC 50	40.4	Ceriodaphnia sp.	Method not given	48
tetrasodium ethylene diamine tetraacetate	EC 50	140	Daphnia magna Straus	DIN 38412, Part 11	48
potassium hydroxide	EC 50	30 - 1000	Daphnia magna Straus	Weight of evidence	
alkyl polyglucoside	EC 50	> 100	Daphnia magna Straus		48
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	EC 50	4.53	Ceriodaphnia sp.	OECD 202 (EU C.2)	48
sulphonic acids, C14-17-sec-alkane, sodium salts	EC 50	9.81	Daphnia magna Straus	OECD 202 (EU C.2)	48
sodium cumenesulphonate	EC 50	> 1000	Daphnia	EPA-OPPTS 850.1010	48

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hydroxide	EC 50	22	Photobacteriu m phosphoreum	Method not given	0.25
tetrasodium ethylene diamine tetraacetate	EC 50	> 100	Scenedesmus obliquus	88/302/EEC, Part C, static	72
potassium hydroxide		No data available			
alkyl polyglucoside	EC 50	> 100	Selenastrum capricornutum		72
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	EC 50	5.2		OECD 201 (EU C.3)	72
sulphonic acids, C14-17-sec-alkane, sodium salts	EC 50	> 61	Pseudokirchner iella subcapitata	OECD 201 (EU C.3)	72
sodium cumenesulphonate	Er C 50	310	Not specified		72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sodium hydroxide		No data available			
tetrasodium ethylene diamine tetraacetate		No data available			
potassium hydroxide		No data available			
alkyl polyglucoside		No data available			
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts		No data available			
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available			
sodium cumenesulphonate		No data available			

Impact on sewage plants - toxicity to bacteria					
Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
sodium hydroxide		No data available			
tetrasodium ethylene diamine tetraacetate	EC 20	> 500	Activated sludge	OECD 209	0.5 hour(s)
potassium hydroxide	EC 50	22	Photobacteriu m phosphoreum	Method not given	15 minute(s)
alkyl polyglucoside		No data available			
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	EC 50	230		OECD 209	
sulphonic acids, C14-17-sec-alkane, sodium salts	NOEC	600	Pseudomonas putida	DIN 38412 / Part 8	16 hour(s)
sodium cumenesulphonate	Er C 50	> 1000	Bacteria	OECD 209	3 hour(s)

Aquatic long-term toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium hydroxide		No data available				
tetrasodium ethylene diamine tetraacetate	NOEC	> 25.7	Brachydanio rerio	OECD 210	35 day(s)	
potassium hydroxide		No data available				
alkyl polyglucoside		No data available				
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts		No data available				
sulphonic acids, C14-17-sec-alkane, sodium salts	NOEC	0.85	Oncorhynchus mykiss	OECD 204	28 day(s)	
sodium cumenesulphonate		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium hydroxide		No data available				
tetrasodium ethylene diamine tetraacetate	NOEC	25	Daphnia magna	OECD 211	21 day(s)	
potassium hydroxide		No data available				
alkyl polyglucoside		No data available				
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts		No data available				
sulphonic acids, C14-17-sec-alkane, sodium salts	NOEC	0.36	Daphnia magna	OECD 202	22 day(s)	
sodium cumenesulphonate		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available: Ingredient(s) Endpoint Value Species Method Exposure Effects observed (mg/kg dw time (days) ediment) sodium hydroxide No data available tetrasodium ethylene diamine tetraacetate No data available potassium hydroxide No data available alkyl polyglucoside No data available sulphonic acids, C14-16-alkane hydroxy and No data C14-16-alkene, sodium salts available sulphonic acids, C14-17-sec-alkane, sodium salts No data available sodium cumenesulphonate No data available

Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available: Value Method Exposure Effects observed Ingredient(s) Endpoint Species time (days) (mg/kg dw soil) sodium hydroxide No data available tetrasodium ethylene diamine tetraacetate LD 50 156 Eisenia fetida **OECD 207** 14 potassium hydroxide No data available sulphonic acids, C14-17-sec-alkane, sodium salts NOEC 470 Eisenia fetida OECD 222 56 sodium cumenesulphonate No data available

Terrestrial toxicity - plants, if available:

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

tetrasodium ethylene diamine tetraacetate	NOEC	0.25 - 1.25		21	
potassium hydroxide		No data available			
sodium cumenesulphonate		No data available			

Terrestrial toxicity - birds, if available:

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

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw soil)			time (days)	
sodium hydroxide		No data				
		available				
potassium hydroxide		No data				
		available				
sodium cumenesulphonate		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 hydroxide	13 second(s)	Method not given	Rapidly photodegradable	
tetrasodium ethylene diamine tetraacetate	No data available			
potassium hydroxide	No data available			
sodium cumenesulphonate	No data available			

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh	Method	Evaluation	Remark
	water			
sodium hydroxide	No data available			
tetrasodium ethylene diamine tetraacetate	No data available			
potassium hydroxide	No data available			
sodium cumenesulphonate	No data available			

Abiotic degradation - other processes, if available:

Ingredient(s)	Туре	Half-life time	Method	Evaluation	Remark
sodium hydroxide		No data available			
tetrasodium ethylene diamine tetraacetate		No data available			
potassium hydroxide		No data available			
sodium cumenesulphonate		No data available			

Biodegradation Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
sodium hydroxide					Not applicable (inorganic substance)
tetrasodium ethylene diamine tetraacetate				Weight of evidence	Not readily biodegradable.
potassium hydroxide					Not applicable (inorganic substance)
alkyl polyglucoside	Activated sludge,	Oxygen depletion	90 % in 28 day(s)	OECD 301D	Readily biodegradable

	aerobe				
sulphonic acids, C14-16-alkane hydroxy and	Activated sludge,	CO ₂ production	> 80 % in 28	OECD 301B	Readily biodegradable
C14-16-alkene, sodium salts	aerobe		day(s)		
sulphonic acids, C14-17-sec-alkane, sodium salts	Activated sludge,	DOC reduction	89 % in 28 day(s)	OECD 301E	Readily biodegradable
	aerobe				
sodium cumenesulphonate	Activated sludge,	CO ₂ production	100 % in 28 day(s)	OECD 301B	Readily biodegradable
	aerobe				

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation
sodium hydroxide					No data available
tetrasodium ethylene diamine tetraacetate					No data available
sodium cumenesulphonate					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation
sodium hydroxide					No data available
tetrasodium ethylene diamine tetraacetate					No data available
potassium hydroxide					No data available
sodium cumenesulphonate					No data available

12.3 Bioaccumulative potential Partition coefficient n-octanol/water (lo

Ingredient(s)	Value	Method	Evaluation	Remark
sodium hydroxide	No data available		Not relevant, does not bioaccumulate	
tetrasodium ethylene diamine tetraacetate	-3.86	Method not given	No bioaccumulation expected	
potassium hydroxide	No data available		Not relevant, does not bioaccumulate	
alkyl polyglucoside	1.1			
Iphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	-1.3	(EC) 440/2008, A.8	No bioaccumulation expected	
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available		No bioaccumulation expected	
sodium cumenesulphonate	-1.5	Method not given	Low potential for bioaccumulation	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium hydroxide	No data available				
tetrasodium ethylene diamine tetraacetate	1.8	Lepomis macrochirus	OECD 305	Low potential for bioaccumulation	
potassium hydroxide	No data available				
alkyl polyglucoside	No data available			Low potential for bioaccumulation	
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	No data available				
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available				
sodium cumenesulphonate	3.16		QSAR	Low potential for bioaccumulation	

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 hydroxide	No data available				Mobile in soil			
tetrasodium ethylene diamine tetraacetate	No data available				Adsorption to solid soil phase is not expected			
potassium hydroxide	No data available				Low potential for adsorption to soil			
alkyl polyglucoside	No data available							
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	No data available				Low potential for adsorption to soil			
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available							
sodium cumenesulphonate	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:

European Waste Catalogue:

Empty packaging **Recommendation:** Suitable cleaning agents: 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 15* - alkalines.

Dispose of observing national or local regulations. Water, if necessary with cleaning agent.

SECTION 14: Transport information



Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR) 14.1 UN number or ID number: 1824 14.2 UN proper shipping name: Sodium hydroxide solution 14.3 Transport hazard class(es): Transport hazard class (and subsidiary risks): 8 14.4 Packing group: II 14.5 Environmental hazards: Environmentally hazardous: No Marine pollutant: No 14.6 Special precautions for user: None known.

14.7 Maritime transport in bulk according to IMO instruments: The product is not transported in bulk tankers.

Other relevant information: ADR Classification code: C5 Tunnel restriction code: (E) Hazard identification number: 80 IMO/IMDG

EmS: F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

SECTION 15: Regulatory information

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

National regulations :

- Regulation (EC) 1907/2006 REACH (UK amended)
- Regulation (EC) 1272/2008 CLP (UK amended)
- Regulation (EC) 648/2004 Detergents regulation (UK amended)
- Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

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

Ingredients according to Detergents Regulation EDTA and salts thereof

5 - 15 %

anionic surfactants, non-ionic surfactants, NTA (nitrilotriacetic acid) and salts thereof

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

< 5 %

Comah - classification: Not classified

15.2 Chemical safety assessment

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

SECTION 16: Other information

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

SDS code: MSDS1503

Version: 13.0

Revision: 2024-08-07

Reason for revision:

Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 2, 6, 7, 8, 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
- · H290 May be corrosive to metals.
- · H302 Harmful if swallowed. • H314 - Causes severe skin burns and eye damage.
- H315 Causes skin irritation
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- · H373 May cause damage to organs through prolonged or repeated exposure.
- · H412 Harmful to aquatic life with long lasting effects.

End of Safety Data Sheet