

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Enduroplus VE6

Version 03

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

1.1 Product identifier

Revision: 2012-08-10

Trade name: Enduroplus VE6

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

Identified uses: For industrial use only. AISE-P806 - Foam cleaner. Semi-automatic with venting process AISE-P807 - Foam cleaner. Semi-automatic without venting process Uses advised against Uses other than those identified are not recommended

1.3 Details of the supplier of the safety data sheet

Diversey local operating company

Contact details Diversey local operating company

1.4 Emergency telephone number

Diversey local operating company

This International SDS is for information only. It does not meet all applicable regulatory requirements and does not replace the relevant statutory data sheet for your country

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled in accordance with Directive 1999/45/EC and corresponding national legislation.

Indication of danger

C - Corrosive

N - Dangerous for the environment

Risk phrases:

- R31 Contact with acids liberates toxic gas.
- R35 Causes severe burns.
- R50 Very toxic to aquatic organisms.

2.2 Label elements



C - Corrosive

N - Dangerous for the environment

Contains sodium hydroxide, potassium hydroxide, sodium hypochlorite

Risk phrases:

R31 - Contact with acids liberates toxic gas.

- R35 Causes severe burns.
- R50 Very toxic to aquatic organisms.

Safety phrases:

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28a - After contact with skin, wash immediately with plenty of water.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S61b - Avoid release to the environment. Refer to safety data sheet.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

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	Classification (EC) 1272/2008	Notes	Weight percent
sodium hydroxide	215-185-5	1310-73-2	01-2119457892-27	C; R35	Skin Corr. 1A (H314)		3-10
sodium hypochlorite	231-668-3	7681-52-9	01-2119488154-34	C,N; R31-34-50	Skin Corr. 1B (H314) Aquatic Acute 1 (H400) (EUH031)		3-10
sodium xylene sulphonate	215-090-9	1300-72-7	01-2119513350-56	Xi; R36/37/38	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335)		3-10
potassium hydroxide	215-181-3	1310-58-3	01-2119487136-33	C; R22-35	Skin Corr. 1A (H314) Met. Corr. 1 (H290) Acute Tox. 4 (H302)		1-3
N,N-dimethyltetradecylamine N-oxide	222-059-3	3332-27-2	No data available	Xi,N; R38-41-50	Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Skin Irrit. 2 (H315)		0.1-1
amines, C10-16 alkyldimethyl-,N-oxides	274-687-2	70592-80-2	No data available	Xn,N; R22-38-41-50	Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Acute Tox. 4 (H302) Skin Irrit. 2 (H315)		0.1-1

* Polymer.

For the full text of the R, H and EUH phrases mentioned in this Section, see Section 16.

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.

SECTION 4: First aid measures

4.1 Description of first aid measures	6
General Information	If unconscious place in recovery position and seek medical advice.
Inhalation	Remove from source of exposure. Get medical attention immediately.
Skin contact	Immediately wash off with plenty of water. Take off all contaminated clothing immediately. Get medical attention.
Eye contact	Wash off immediately with plenty of water. Get medical attention immediately.
Ingestion	Remove material from mouth. Immediately drink 1-2 glasses of water or milk. Get medical attention immediately.
Self-protection of first aider:	Consider personal protective equipment as indicated in subsection 8.2.
4.2 Most important symptoms and e	effects, both acute and delayed
Inhalation	May cause bronchospasm in chlorine sensitive individuals. Severe irritant, may cause respiratory tract irritation.
Skin contact	Causes severe burns.
Eye contact	Causes severe or permanent damage.
Ingestion	Causes severe burns. Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

Sensitisation

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.

No known effects.

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

In case of an incident in a confined area wear suitable respiratory protection. Wear suitable protective clothing, gloves and eye/face protection.

6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Dilute with plenty of water. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

6.3 Methods and material for containment and cleaning up

Absorb onto dry sand or similar inert material.

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

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Do not mix with other products unless advised by Diversey. For advice on general occupational hygiene see subsection 8.2. For environmental exposure controls see subsection 8.2. For incompatible materials see subsection 10.5.

Prevention of fire and explosion

No special precautions required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms / facilities:

In accordance with local and national regulations.

Combined storage in storage rooms / facilities:

In accordance with local and national regulations. Store away from acids.

Basic storage conditions

Store in original container. Keep container tightly closed. For conditions to avoid see subsection 10.4.

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)	EU - Long term value(s)	EU - Short term value(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

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sodium hydroxide	No data available	No data available	No data available	No data available
sodium hypochlorite	No data available	No data available	No data available	0.26
sodium xylene sulphonate	No data available	No data available	No data available	No data available
potassium hydroxide	No data available	No data available	No data available	No data available
N,N-dimethyltetradecylamine N-oxide	No data available	No data available	No data available	No data available
amines, C10-16 alkyldimethyl-,N-oxides	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 hydroxide	2 %	No data available	No data available	No data available
sodium hypochlorite	No data available	No data available	0.5 %	No data available
sodium xylene sulphonate	No data available	No data available	No data available	No data available

potassium hydroxide	No data available	No data available	No data available	No data available
N,N-dimethyltetradecylamine N-oxide	No data available	No data available	No data available	No data available
amines, C10-16 alkyldimethyl-,N-oxides	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 hydroxide	2 %	No data available	No data available	No data available
sodium hypochlorite	No data available	No data available	0.5 %	No data available
sodium xylene sulphonate	No data available	No data available	No data available	No data available
potassium hydroxide	No data available	No data available	No data available	No data available
N,N-dimethyltetradecylamine N-oxide	No data available	No data available	No data available	No data available
amines, C10-16 alkyldimethyl-,N-oxides	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 hydroxide	No data available	No data available	1	No data available
sodium hypochlorite	3.1	3.1	1.55	1.55
sodium xylene sulphonate	No data available	No data available	No data available	No data available
potassium hydroxide	No data available	No data available	1	No data available
N,N-dimethyltetradecylamine N-oxide	No data available	No data available	No data available	No data available
amines, C10-16 alkyldimethyl-,N-oxides	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 hydroxide	No data available	No data available	1	No data available
sodium hypochlorite	3.1	3.1	1.55	1.55
sodium xylene sulphonate	No data available	No data available	No data available	No data available
potassium hydroxide	No data available	No data available	1	No data available
N,N-dimethyltetradecylamine N-oxide	No data available	No data available	No data available	No data available
amines, C10-16 alkyldimethyl-,N-oxides	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 hydroxide	No data available	No data available	No data available	No data available
sodium hypochlorite	0.00021	0.000042	No data available	0.03
sodium xylene sulphonate	No data available	No data available	No data available	No data available
potassium hydroxide	No data available	No data available	No data available	No data available
N,N-dimethyltetradecylamine N-oxide	No data available	No data available	No data available	No data available
amines, C10-16 alkyldimethyl-,N-oxides	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 hydroxide	No data available	No data available	No data available	No data available
sodium hypochlorite	No data available	No data available	No data available	0.00026
sodium xylene sulphonate	No data available	No data available	No data available	No data available
potassium hydroxide	No data available	No data available	No data available	No data available
N,N-dimethyltetradecylamine N-oxide	No data available	No data available	No data available	No data available
amines, C10-16 alkyldimethyl-,N-oxides	No data available	No data available	No data available	No data available

8.2 Exposure controls

General health and safety measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Take off immediately all contaminated clothing. Wash hands before breaks and at the end of workday. Avoid contact with skin and eyes.

The following information applies for the uses indicated in subsection 1.2. 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:	Use only in well ventilated areas. 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.
Personal protective equipment Eye / face protection:	Safety glasses or goggles (EN 166).

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:	Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur.
Respiratory protection:	No special requirements under normal use conditions
Environmental exposure controls:	Should not reach sewage water or drainage ditch undiluted.
Recommended safety measures for han	dling the <u>diluted</u> product:
Recommended maximum concentrati	on (%): 10

Appropriate engineering controls: Appropriate organisational controls:	Ensure that foam equipment does not generate respirable particles. Avoid direct contact and/or splashes where possible. Train personnel.
Personal protective equipment . Eye / face protection:	Safety glasses or goggles (EN 166) are always recommended for foam applications.
Hand protection:	Chemical-resistant protective gloves (EN 374) are always recommended for foam applications 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
Pody protostion	In consultation with the supplier of protective gloves a different type providing similar protection may be chosen No special requirements under normal use conditions.
Body protection: Respiratory protection:	No special requirements under normal use conditions
Environmental exposure controls:	No special requirements under normal use conditions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State:
Colour
Odour
pH:
Boiling point/range (°C):
Flash point (°C):
Flammability
Specific gravity:
Solubility in / Miscibility with
Explosive properties
Oxidising properties:

Liquid Clear Pale Yellow Chlorine > 12 (neat) Not determined ≈ 100 closed cup Not flammable. 1.23 g/cm³ (20°C) Water: Fully miscible Not explosive. Not oxidising.

9.2 Other information 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

Reacts with acids releasing toxic chlorine gas.

10.6 Hazardous decomposition products

Chlorine.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixtures

No test data is available on the mixture

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

Acute toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sodium hydroxide	LD ₅₀	500	Rabbit	Method not given	
sodium hypochlorite	LD ₅₀	> 1100	Rat	Method not given	
sodium xylene sulphonate	LD ₅₀	> 7000	Rat	Method not given	
potassium hydroxide	LD ₅₀	333	Rat	OECD 425	
N,N-dimethyltetradecylamine N-oxide	LD ₅₀	> 2000	Rat	Method not given	
amines, C10-16 alkyldimethyl-,N-oxides		No data available			

Acute	dermal	toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sodium hydroxide	LD ₅₀	1350	Rabbit	Method not given	
sodium hypochlorite	LD 50	> 20000	Rabbit	Method not given	
sodium xylene sulphonate	LD ₅₀	> 2000	Rabbit	Method not given	
potassium hydroxide		No data available			
N,N-dimethyltetradecylamine N-oxide		No data available			
amines, C10-16 alkyldimethyl-,N-oxides		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hydroxide	LC	4800	Mouse	Method not given	1
sodium hypochlorite	LC	> 10500	Rat	Method not given	1
sodium xylene sulphonate		No data available			
potassium hydroxide		No data available			
N,N-dimethyltetradecylamine N-oxide		No data available			
amines, C10-16 alkyldimethyl-,N-oxides		No data available			

Irritation and corrosivity Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium hydroxide	Corrosive	Rabbit	Method not given	
sodium hypochlorite	Corrosive	Rabbit	Method not given	
sodium xylene sulphonate	Mild irritant	Rabbit	OECD 404 (EU B.4)	
potassium hydroxide	Mild irritant	Rabbit	Method not given	
N,N-dimethyltetradecylamine N-oxide	Irritant	Rabbit	Method not given	
amines, C10-16 alkyldimethyl-,N-oxides	No data available			

Ingredient(s)	Result	Species	Method	Exposure time
sodium hydroxide	Corrosive	Rabbit	Method not given	
sodium hypochlorite	Severe damage	Rabbit	Method not given	
sodium xylene sulphonate	Irritant	Rabbit	OECD 405 (EU B.5)	
potassium hydroxide	No data available			
N,N-dimethyltetradecylamine N-oxide	Severe damage	Rabbit	Method not given	
amines, C10-16 alkyldimethyl-,N-oxides	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium hydroxide	No data available			
sodium hypochlorite	Irritating to respiratory tract			
sodium xylene sulphonate	No data available			
potassium hydroxide	No data available			
N,N-dimethyltetradecylamine N-oxide	No data available			
amines, C10-16 alkyldimethyl-,N-oxides	No data available			

Sensitisation Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sodium hydroxide	Not sensitising		Human repeated patch test	
sodium hypochlorite	Not sensitising	Guinea pig	Method not given	
sodium xylene sulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
potassium hydroxide	No data available			
N,N-dimethyltetradecylamine N-oxide	No data available			
amines, C10-16 alkyldimethyl-,N-oxides	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium hydroxide	No data available			
sodium hypochlorite	No data available			
sodium xylene sulphonate	No data available			
potassium hydroxide	No data available			
N,N-dimethyltetradecylamine N-oxide	No data available			
amines, C10-16 alkyldimethyl-,N-oxides	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 hydroxide		No data available				
sodium hypochlorite	NOAEL	50	Rat	Method not given	90	
sodium xylene sulphonate	NOAEL	763 - 3534	Rat	OECD 408 (EU B.26)	90 d	
potassium hydroxide		No data available				
N,N-dimethyltetradecylamine N-oxide		No data available				
amines, C10-16 alkyldimethyl-,N-oxides		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 hydroxide		No data available				
sodium hypochlorite		No data available				
sodium xylene sulphonate	NOAEL	> 440		OECD 411 (EU B.28)	90	
potassium hydroxide		No data available				
N,N-dimethyltetradecylamine N-oxide		No data available				

amines, C10-16 alkyldimethyl-,N-oxides	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 hydroxide		No data available				
sodium hypochlorite		No data available				
sodium xylene sulphonate		No data available				
potassium hydroxide		No data available				
N,N-dimethyltetradecylamine N-oxide		No data available				
amines, C10-16 alkyldimethyl-,N-oxides		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					
sodium hypochlorite			No data available					
sodium xylene sulphonate			No data available					
potassium hydroxide			No data available					
N,N-dimethyltetradecyl amine N-oxide			No data available					
amines, C10-16 alkyldimethyl-,N-oxides			No data available					

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Mixture data:

Based on available data, the classification criteria are not met.

Substance data, where relevant and available

Carcinogenicity	
Ingredient(s)	Effect
sodium hydroxide	No evidence for carcinogenicity, weight-of-evidence
sodium hypochlorite	No evidence for carcinogenicity, negative test results
sodium xylene sulphonate	No evidence for carcinogenicity, negative test results
potassium hydroxide	No evidence for carcinogenicity, negative test results
N,N-dimethyltetradecyl amine N-oxide	No data available
amines, C10-16 alkyldimethyl-,N-oxides	No data available

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
sodium hydroxide	No evidence for mutagenicity, negative test results	DNA repair test on rat hepatocytes OECD 473	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12) OECD 475 (EU B.11)
sodium hypochlorite	No evidence for mutagenicity, weight of evidence		No evidence for mutagenicity, negative test results	
sodium xylene sulphonate	No data available		No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
potassium hydroxide	No evidence for mutagenicity, negative test results		No data available	
N,N-dimethyltetradecyl amine N-oxide	No data available		No data available	
amines, C10-16 alkyldimethyl-,N-oxides	No data available		No data available	

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
sodium hypochlorite	NOAEL	Developmental toxicity	5 (Cl)	Rat	Not known		No evidence for reproductive toxicity
sodium xylene sulphonate	NOAEL		> 936	Rat	Non guideline test		

potassium hydroxide	No data available	No evidence for reproductive toxicity
N,N-dimethyltetradecyl amine N-oxide	No data available	
amines, C10-16 alkyldimethyl-,N-oxides	No data available	

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 Mixtures

No test data is available on the mixture.

Substance data, where relevant and available, are listed below

Aquatic short-term toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hydroxide	LC ₅₀	35	Various species	Method not given	96
sodium hypochlorite	LC ₅₀	0.06	Various species	Method not given	96
sodium xylene sulphonate	LC	> 1000	Fish	EPA-OPPTS	96
potassium hydroxide		80	Various species	Method not given	24
N,N-dimethyltetradecylamine N-oxide	LC 50	10 - 100	Brachydanio rerio	OECD 203 Read across	96
amines, C10-16 alkyldimethyl-,N-oxides		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hydroxide	EC ₅₀	40.4	Ceriodaphnia sp.	Method not given	48
sodium hypochlorite	EC	0.026	Not specified	Method not given	48
sodium xylene sulphonate	EC	> 1000	Daphnia	EPA-OPPTS	48
potassium hydroxide	EC 50	30 - 1000	Daphnia magna Straus		
N,N-dimethyltetradecylamine N-oxide	EC ₅₀	11.1	Daphnia magna Straus	OECD 202	48
amines, C10-16 alkyldimethyl-,N-oxides		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hydroxide	EC ₅₀	22	Photobacteriu m phosphoreum	Method not given	0.25
sodium hypochlorite	NOEC	0.0021	Not specified	Method not given	168
sodium xylene sulphonate	EC 50	> 230		US-EPA 1994	96
potassium hydroxide		No data available			
N,N-dimethyltetradecylamine N-oxide	EC ₅₀	0.47	Pseudokirchner iella subcapitata	OECD 201 Read across	72
amines, C10-16 alkyldimethyl-,N-oxides		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sodium hydroxide		No data available			
sodium hypochlorite		No data available			
sodium xylene sulphonate		No data available			
potassium hydroxide		No data available			
N,N-dimethyltetradecylamine N-oxide		No data available			

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Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
sodium hydroxide		No data available			
sodium hypochlorite		0.375	Activated sludge	Method not given	
sodium xylene sulphonate	E _r C ₅₀	> 1000	Activated sludge	OECD 209	3 hour(s)
potassium hydroxide		No data available			
N,N-dimethyltetradecylamine N-oxide	EC ₅₀	56	Pseudomonas putida	DIN 38412 / Part 8 Read across	
amines, C10-16 alkyldimethyl-,N-oxides		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 hydroxide		No data available				
sodium hypochlorite	NOEC	0.04	Menidia pelinsulae	Method not given	96 hour(s)	
sodium xylene sulphonate		No data available				
potassium hydroxide		No data available				
N,N-dimethyltetradecylamine N-oxide		No data available				
amines, C10-16 alkyldimethyl-,N-oxides		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				
sodium hypochlorite		No data available				
sodium xylene sulphonate		No data available				
potassium hydroxide		No data available				
N,N-dimethyltetradecylamine N-oxide		No data available				
amines, C10-16 alkyldimethyl-,N-oxides		No data available				

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

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

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if 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	
sodium hypochlorite	115 day(s)	Indirect photo-oxidation		

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ingredient(s)	Inoculum	Analytical method	DT ₅₀	Method	Evaluation
sodium hydroxide					Not applicable (inorganic substance)
sodium hypochlorite					No data available
sodium xylene sulphonate			99.8% in 28 day(s)	OECD 301B	Readily biodegradable
potassium hydroxide					Not applicable (inorganic substance)
N,N-dimethyltetradecylamine N-oxide			> 60 % in 28 day(s)	OECD 301D	Readily biodegradable
amines, C10-16 alkyldimethyl-,N-oxides					No data available

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

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.

12.3 Bioaccumulative potential

Ingredient(s)	Value	Method	Evaluation	Remark
sodium hydroxide	No data available		Not relevant, does not bioaccumulate	
sodium hypochlorite	No data available			
sodium xylene sulphonate	-3.2	Method not given	Low potential for bioaccumulation	
potassium hydroxide	No data available		Not relevant, does not bioaccumulate	
I,N-dimethyltetradecylamine N-oxide	No data available		No bioaccumulation expected	
nines, C10-16 alkyldimethyl-,N-oxides	No data available			

Bioconcentration factor (BCF)				
Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium hydroxide	No data available				
sodium hypochlorite	No data available				
sodium xylene sulphonate	No data available				
potassium hydroxide	No data available				
N,N-dimethyltetradecyl amine N-oxide	No data available				
amines, C10-16 alkyldimethyl-,N-oxides	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 hydroxide	No data available				Mobile in soil
sodium hypochlorite	1				High potential for mobility in soil
sodium xylene sulphonate	No data available				
potassium hydroxide	No data available				Low potential for adsorption to soil
N,N-dimethyltetradecylamine N-oxide	No data available				
amines, C10-16 alkyldimethyl-,N-oxides	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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products Dispose of in compliance with all Federal, state, provincial, and local laws and regulations.European Waste Catalogue:20 01 15* - alkalines.

Empty packaging Recommendation: Suitable cleaning agents

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

SECTION 14: Transport information



ADR, RID, ADN, IMO/IMDG, ICAO/IATA

14.1 UN number: 1719 14.2 UN proper shipping name: Caustic alkali liquid, n.o.s. (sodium hydroxide , hypochlorite) 14.3 Transport hazard class(es): Class:8 Label(s):8 14.4 Packing group: II 14.5 Environmental hazards: Environmentally hazardous: Yes Marine pollutant Yes 14.6 Special precautions for user: None known. 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code. 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

Ingredients according	a to EC Detergents	Regulation 648/2004

chlorine-based bleaching agents	
anionic surfactants, non-ionic surfactants, phosphonates, soap	

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

MSDS code: MSDS4095

Version 03

Revision: 2012-08-10

5 - 15% < 5%

Reason for revision:

Overall design adjusted in accordance with Regulation (EC) No 1907/2006, Annex II

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

· R35 - Causes severe burns

- R34 Causes burns.
- R50 Very toxic to aquatic organisms.
 R31 Contact with acids liberates toxic gas.
- · R22 Harmful if swallowed
- R41 Risk of serious damage to eyes.
- R38 Irritating to skin.
- R36/37/38 Irritating to eyes, respiratory system and skin.

- 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.
 H335 May cause respiratory irritation.
 H400 Very toxic to aquatic life.
 EUH031 Contact with acids liberates toxic gas.

Abbreviations and acronyms:

- AISE The international Association for Soaps, Detergents and Maintenance Products
 DNEL Derived No Effect Limit

- 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
 End of Sa

End of Safety Data Sheet