

# Safety Data Sheet

According to Regulation (EC) No 1907/2006

# Actival F4r

Revision: 2024-12-13

Version: 01.1

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

### **1.1 Product identifier Trade name:** Actival F4r

UFI: U1NH-C16M-X00V-XFPQ

# 1.2 Relevant identified uses of the substance or mixture and uses advised against Product use: Floor cleaner.

Uses advised against:

For professional use only. Uses other than those identified are not recommended.

### SWED - Sector-specific worker exposure description :

AISE\_SWED\_PW\_8a\_1 AISE\_SWED\_PW\_8b\_1 AISE\_SWED\_PW\_8b\_1 AISE\_SWED\_PW\_4\_1 AISE\_SWED\_PW\_10\_1 AISE\_SWED\_PW\_19\_1

### 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

Tel: 01 8081808 (9am - 5pm Mon-Fri) Email: dublin.orders@solenis.com

# 1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible). National Poisons Information Centre Tel: 01 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week) Tel: 01 809 2566 (health care professionals).

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Skin corrosion, Category 1B (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), alkyl alcohol ethoxylate (Trideceth 7-10)

### Hazard statements:

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

### **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	01-211945789	Skin corrosion, Category 1A (H314)		3-10
			2-27	Corrosive to metals, Category 1 (H290)		
sodium cumenesulphonate	239-854-6	15763-76-5	01-211948941	Eye irritation, Category 2 (H319)		3-10
			1-37			
alkyl alcohol ethoxylate	[4]	69011-36-5	[4]	Eye irritation, Category 2 (H319)		3-10
				Chronic aquatic toxicity, Category 3 (H412)		
alkyl alcohol alkoxylate	[4]	196823-11-7	[4]	Eye irritation, Category 2 (H319)		3-10
alkyl alcohol ethoxylate	[4]	69011-36-5		Acute toxicity - Oral, Category 4 (H302) Serious eye damage, Category 1 (H318)		1-3

### Specific concentration limits

sodium hydroxide:

• Serious eye damage, Category 1 (H318) >= 2% > Eye irritation, Category 2 (H319) >= 0.5%

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

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

ATE, if available, are listed in section 11.

[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 **General Information:** If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Inhalation: Remove person to fresh air and keep comfortable for breathing. Get medical attention or advice if vou feel unwell. Skin contact: Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Wash skin with plenty of lukewarm, gently flowing water. Take off immediately all contaminated clothing and wash it before reuse. Immediately call a POISON CENTRE, doctor or physician. If skin irritation occurs: Get medical advice or attention. Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove Eye contact: 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 person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician. Consider personal protective equipment as indicated in subsection 8.2. Self-protection of first aider: 4.0 Mast important supprises and affects both south and delayed

4.2 Most important symptoms and effe	ects, both acute and delayed
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 oesophagus and stomach.

### 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 eye/face protection. Wear suitable gloves.

### 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. Aborb 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.

### Advice 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 advised 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)	Long term value(s)	Short term value(s)
sodium hydroxide		2 mg/m <sup>3</sup>

Biological limit values, if available:

### Recommended monitoring procedures, if available:

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

# DNEL/DMEL and PNEC values

Human exposure DNEL/DMEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sodium hydroxide	-	-	-	-
sodium cumenesulphonate	-	-	-	3.8
alkyl alcohol ethoxylate	-	-	-	25
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-

### DNEL/DMEL dermal exposure - Worker

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 hydroxide	2 %	-	-	-
sodium cumenesulphonate	-	-	-	136.25
alkyl alcohol ethoxylate	-	-	-	-
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-

### 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 %	-	-	-
sodium cumenesulphonate	-	-	-	68.1
alkyl alcohol ethoxylate	-	-	-	-
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-

### DNEL/DMEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sodium hydroxide	-	-	1	-
sodium cumenesulphonate	-	-	-	26.9
alkyl alcohol ethoxylate	-	-	-	-
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-

### DNEL/DMEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sodium hydroxide	-	-	1	-
sodium cumenesulphonate	-	-	-	6.6
alkyl alcohol ethoxylate	-	-	-	-
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-

# **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	-	-	-	-
sodium cumenesulphonate	0.23	0.023	2.3	100
alkyl alcohol ethoxylate	-	-	-	-
alkyl alcohol alkoxylate	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 hydroxide	-	-	-	-
sodium cumenesulphonate	0.862	0.0862	0.037	-
alkyl alcohol ethoxylate	-	-	-	-
alkyl alcohol alkoxylate	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 <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				
Manual transfer and dilution	AISE_SWED_PW_8a_1	PW	PROC 8a	60	ERC8a
Automatic transfer and dilution	AISE_SWED_PW_8b_1	PW	PROC 8b	60	ERC8b

### Personal protective equipment

Eye / face protection: Hand protection:	Safety glasses or goggles (EN 16321). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur. 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
Body protection:	be chosen. Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may
Respiratory protection:	occur (EN 14605). No special requirements under normal use conditions.
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:	No special requirements under normal use conditions.
Appropriate organisational controls:	No special requirements under normal use conditions.

### REACH use scenarios considered for the diluted product:

	SWED	LCS	PROC	Duration	ERC
				(min)	
Machine application	AISE_SWED_PW_10_1	PW	PROC 10	480	ERC8a
Manual application by brushing, wiping or mopping					
Manual application	AISE_SWED_PW_19_1	PW	PROC 19	480	ERC8a
Automatic application in a dedicated system	AISE_SWED_PW_4_1	PW	PROC 4	480	ERC8a

## Personal protective equipment

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

### **Environmental exposure controls:**

# No special requirements under normal use conditions.

# SECTION 9: Physical and chemical properties

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

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

N.A. See substance data

Method / remark

Method / remark

Substance data, boiling point			
Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
sodium hydroxide	> 990	Method not given	
sodium cumenesulphonate	No data available		
alkyl alcohol ethoxylate	No data available		
alkyl alcohol alkoxylate	No data available		
alkyl alcohol ethoxylate	> 200	Method not given	

Flammability (solid, gas): Not applicable to liquids Flammability (liquid): Not flammable. Flash point (°C): Not applicable. Sustained combustion: Not applicable. (UN Manual of Tests and Criteria, section 32, L.2)

Lower and upper explosion limit/flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

	Method / remark
Autoignition temperature: Not determined	N.A
Decomposition temperature: Not applicable.	
<b>pH:</b> >= 11.5 (neat)	ISO 4316
Dilution pH: > 11 (5 %)	ISO 4316
Kinematic viscosity: Not determined	
Solubility in / Miscibility with water: Fully miscible	

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
sodium hydroxide	1000	Method not given	20
sodium cumenesulphonate	493 Soluble	Method not given	20
alkyl alcohol ethoxylate	Partly soluble	Method not given	20
alkyl alcohol alkoxylate	No data available		
alkyl alcohol ethoxylate	Soluble	Method not given	20

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

### Vapour pressure: See substance data.

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sodium hydroxide	< 1330	Method not given	20
sodium cumenesulphonate	No data available		
alkyl alcohol ethoxylate	< 100		
alkyl alcohol alkoxylate	No data available		
alkyl alcohol ethoxylate	Negligible	Method not given	20-25

Relative density: ≈ 1.05 (20 °C) Relative vapour density: -. 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

Method / remark

Method / remark

See substance data

OECD 109 (EU A.3) Not relevant to classification of this product Not applicable to liquids.

N.A N.A. Weight of evidence

# 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

<u>Substance data</u>, where relevant and available, are listed below:.

# Acute toxicity Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Oral (mg/kg)
sodium hydroxide		No data available				Not established
sodium cumenesulphonate	LD 50	> 7000	Rat	Method not given		Not established
alkyl alcohol ethoxylate	LD 50	> 2000	Rat	OECD 423 (EU B.1 tris)		Not established
alkyl alcohol alkoxylate	LD 50	> 2000-5000	Rat	OECD 423 (EU B.1 tris)		Not established
alkyl alcohol ethoxylate	LD 50	> 300-2000	Rat	OECD 423 (EU B.1 tris)		20000

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
sodium cumenesulphonate	LD 50	> 2000	Rabbit	Method not given		Not established
alkyl alcohol ethoxylate	LD 50	> 2000	Rat	Method not given		Not established
alkyl alcohol alkoxylate		No data available				Not established
alkyl alcohol ethoxylate	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			
sodium cumenesulphonate	LC 50	> 5 (mist) No mortality observed	Rat	Read across	3.87
alkyl alcohol ethoxylate		No data available			
alkyl alcohol alkoxylate		No data available			
alkyl alcohol ethoxylate		No data available			

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
sodium cumenesulphonate	Not established	Not established	Not established	Not established
alkyl alcohol ethoxylate	Not established	Not established	Not established	Not established
alkyl alcohol alkoxylate	Not established	Not established	Not established	Not established
alkyl alcohol ethoxylate	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	
sodium cumenesulphonate	Not irritant	Rabbit	OECD 404 (EU B.4)	
alkyl alcohol ethoxylate	Not irritant	Rabbit	Weight of evidence Non guideline test	
alkyl alcohol alkoxylate	Mild irritant	Rabbit	OECD 404 (EU B.4)	
alkyl alcohol ethoxylate	Not 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	
sodium cumenesulphonate	Irritant	Rabbit	OECD 405 (EU B.5)	
alkyl alcohol ethoxylate	Severe damage	Rabbit	Weight of evidence Non guideline test	
alkyl alcohol alkoxylate	Irritant	Rabbit	OECD 405 (EU B.5)	

alkyl alcohol ethoxylate	Severe damage	Rabbit	Method not given	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium hydroxide	No data available			
sodium cumenesulphonate	No data available			
alkyl alcohol ethoxylate	No data available			
alkyl alcohol alkoxylate	No data available			
alkyl alcohol ethoxylate	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 cumenesulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) /	
			GPMT	
alkyl alcohol ethoxylate	Not sensitising	Guinea pig		
alkyl alcohol alkoxylate	No data available			
alkyl alcohol ethoxylate	Not sensitising	Guinea pig	Method not given	

# Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium hydroxide	No data available			
sodium cumenesulphonate	No data available			
alkyl alcohol ethoxylate	No data available			
alkyl alcohol alkoxylate	No data available			
alkyl alcohol ethoxylate	No data available			

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

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
sodium hydroxide	No evidence for mutagenicity, negative test results		No evidence for mutagenicity, negative test results	OECD 474 (EU B.12) OECD 475 (EU B.11)
sodium cumenesulphonate	No evidence for mutagenicity, negative test results		No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
alkyl alcohol ethoxylate	No evidence for mutagenicity	· ·	No evidence for mutagenicity, negative test results	Weight of evidence
alkyl alcohol alkoxylate	No data available		No data available	
alkyl alcohol ethoxylate	No evidence of genotoxicity, negative test results		No evidence of genotoxicity, negative test results	Method not given

# Carcinogenicity

Ingredient(s)	Effect
sodium hydroxide	No evidence for carcinogenicity, weight-of-evidence
sodium cumenesulphonate	No evidence for carcinogenicity, negative test results
alkyl alcohol ethoxylate	No evidence for carcinogenicity, weight-of-evidence
alkyl alcohol alkoxylate	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 hydroxide			No data available				No evidence for developmental toxicity No evidence for reproductive toxicity
sodium cumenesulphonate	NOAEL	Teratogenic effects	> 936	Rat	Non guideline test		No known significant effects or critical hazards
alkyl alcohol ethoxylate			-		Weight of evidence		No evidence for reproductive toxicity No evidence for teratogenic effects
alkyl alcohol alkoxylate			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 toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	
sodium hydroxide		No data available				
sodium cumenesulphonate	NOAEL	763 - 3534	Rat	OECD 408 (EU B.26)		No effects observed
alkyl alcohol ethoxylate		No data available				
alkyl alcohol alkoxylate		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 hydroxide		No data available				
sodium cumenesulphonate		No data available				
alkyl alcohol ethoxylate		No data available				
alkyl alcohol alkoxylate		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 hydroxide		No data available				
sodium cumenesulphonate		No data available				
alkyl alcohol ethoxylate		No data available				
alkyl alcohol alkoxylate		No data available				
alkyl alcohol ethoxylate		No data available				

### Chronic toxicity

Ingredient(s)	Exposure	Endpoint	Value	Species	Method	Exposure	Specific effects and	Remark
	route		(mg/kg bw/d)			time	organs affected	
sodium hydroxide			No data					
			available					
sodium			No data					
cumenesulphonate			available					
alkyl alcohol ethoxylate			No data					
			available					
alkyl alcohol alkoxylate			No data					
			available					
alkyl alcohol ethoxylate	Oral	NOAEL	50	Rat	Method not	24 month(s)	Effects on organ weights	
					given			

# STOT-single exposure

Ingredient(s)	Affected organ(s)
sodium hydroxide	No data available
sodium cumenesulphonate	Not applicable
alkyl alcohol ethoxylate	Not applicable
alkyl alcohol alkoxylate	No data available
alkyl alcohol ethoxylate	Not applicable

# STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sodium hydroxide	No data available
sodium cumenesulphonate	Not applicable
alkyl alcohol ethoxylate	Not applicable
alkyl alcohol alkoxylate	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

Exposure time (days)

# Actival F4r

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

# 11.2 Information on other hazards

**11.2.1 Endocrine disrupting properties** Endocrine disrupting properties - Human data, if available:

# 11.2.2 Other information

No other relevant information available.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

No data is available on the mixture .

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

# Aquatic short-term toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hydroxide	LC 50	35	Various species	Method not given	96
sodium cumenesulphonate	LC 50	> 1000	Fish	EPA-OPPTS 850.1075	96
alkyl alcohol ethoxylate	LC 50	> 1 - 10	Cyprinus carpio	OECD 203 (EU C.1)	96
alkyl alcohol alkoxylate	LC 50	> 1-10	Brachydanio rerio	OECD 203 (EU C.1)	96
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 hydroxide	EC 50	40.4	Ceriodaphnia sp.	Method not given	48
sodium cumenesulphonate	EC 50	> 1000	Daphnia magna Straus	OECD 202 (EU C.2)	48
alkyl alcohol ethoxylate	EC 50	> 1 - 10	Daphnia magna Straus	OECD 202 (EU C.2)	48
alkyl alcohol alkoxylate	EC 50	> 1-10	Not specified	79/831/EEC	48
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 hydroxide	EC 50	22	Photobacteriu m phosphoreum	Method not given	0.25
sodium cumenesulphonate	E b C 50	> 230	Not specified	EPA OPPTS 850.5400	96
alkyl alcohol ethoxylate	EC 50	> 1 - 10	Desmodesmus subspicatus	OECD 201 (EU C.3)	72
alkyl alcohol alkoxylate	EC 50	> 10-100	Not specified	DIN 38412, Part 9	72
alkyl alcohol ethoxylate	EC 50	1 - 10	Desmodesmus subspicatus	OECD 201, static	72

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method
sodium hydroxide		No data available		
sodium cumenesulphonate		No data available		
alkyl alcohol ethoxylate		No data available		
alkyl alcohol alkoxylate		No data available		
alkyl alcohol ethoxylate		No data available		

Impact on sewage plants - toxicity to bacteria					
Ingredient(s)	Endpoint	Value	Inoculum	Method	Exposure
		(mg/l)			time
sodium hydroxide		No data			
		available			

sodium cumenesulphonate	Er C 50	> 1000	Bacteria	OECD 209	3 hour(s)
alkyl alcohol ethoxylate	EC 50	140	Activated sludge	Weight of evidence	17 hour(s)
alkyl alcohol alkoxylate	EC 20	> 10	Activated sludge	OECD 209	30 minute(s)
alkyl alcohol ethoxylate	EC 10	> 10000	Activated sludge	DIN 38412 / Part 8	17 hour(s)

# Aquatic long-term toxicity

#### Aquatic long-term toxicity - fish Value Effects observed Ingredient(s) Endpoint Species Method Exposure (mg/l) time sodium hydroxide No data available sodium cumenesulphonate No data available alkyl alcohol ethoxylate NOEC 1.73 Not specified QSAR Weight 96 hour(s) of evidence alkyl alcohol alkoxylate 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 hydroxide		No data available				
sodium cumenesulphonate		No data available				
alkyl alcohol ethoxylate	NOEC	1.36	Daphnia magna Not specified	QSAR Weight of evidence	21 day(s)	
alkyl alcohol alkoxylate		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 hydroxide		No data available				
sodium cumenesulphonate		No data available				
alkyl alcohol ethoxylate		No data available				
alkyl alcohol alkoxylate		No data available				
alkyl alcohol ethoxylate		No data available				

### **Terrestrial toxicity**

#### Terrestrial toxicity - soil invertebrates, including earthworms, if available: Effects observed Ingredient(s) Endpoint Value Species Method Exposure (mg/kg dw time (days) soil) sodium hydroxide No data available alkyl alcohol ethoxylate LD 50 > 1000 Eisenia fetida **OECD 207** 14 NOEC alkyl alcohol ethoxylate 220 Eisenia fetida

# 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				
alkyl alcohol ethoxylate	EC 50	> 100	Triticum aestivum Lepidium sativum Brassica alba	OECD 208		
alkyl alcohol ethoxylate	NOEC	10	Lepidium sativum	OECD 208		

### Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
sodium hydroxide		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				

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium hydroxide		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	

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
sodium hydroxide	No data available			

# Abiotic degradation - other processes, if available:

Ingredient(s)	Туре	Half-life time	Method	Evaluation	Remark
sodium hydroxide		No data available			

### Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
sodium hydroxide					Not applicable (inorganic substance)
sodium cumenesulphonate		CO <sub>2</sub> production	103 - 109% in 28 day(s)	OECD 301B	Readily biodegradable
alkyl alcohol ethoxylate		CO <sub>2</sub> production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
alkyl alcohol alkoxylate		CO <sub>2</sub> production	> 60 % in 28 day(s)	ISO 14593	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:

Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation
sodium hydroxide					No data available
alkyl alcohol ethoxylate					Biodegradable

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation
sodium hydroxide					No data available

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

Ingredient(s)	Value	Method	Evaluation	Remark
sodium hydroxide	No data available		Not relevant, does not	
			bioaccumulate	
sodium cumenesulphonate	-1.1	Method not given	No bioaccumulation expected	
alkyl alcohol ethoxylate	No data available		Not relevant, does not	
			bioaccumulate	
alkyl alcohol alkoxylate	No data available			
alkyl alcohol ethoxylate	4.09	QSAR	No bioaccumulation expected	

### Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium hydroxide	No data available				
sodium cumenesulphonate	No data available				
alkyl alcohol ethoxylate	No data available				
alkyl alcohol alkoxylate	No data available				
alkyl alcohol ethoxylate	-			No bioaccumulation expected	

# 12.4 Mobility in soil

|--|

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 cumenesulphonate	No data available				
alkyl alcohol ethoxylate	No data available				
alkyl alcohol alkoxylate	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 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: III
- 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

### **EU regulations:**

Regulation (EC) No. 1907/2006 - REACH
 Regulation (EC) No 1272/2008 - CLP

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

• substances identified as having endocrine disrupting properties in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605

· Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

International Maritime Dangerous Goods (IMDG) Code

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

# Ingredients according to EC Detergents Regulation 648/2004 non-ionic surfactants

soap

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.

5 - 15 %

< 5 %

## Seveso - 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

Version: 01.1

SDS code: MS1005555

## Reason for revision:

This data sheet contains changes from the previous version in section(s):, 15, 16

### **Classification procedure**

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

### Abbreviations and acronyms:

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

- ATE Acute Toxicity Estimate
- DNEL Derived No Effect Limit
- EC50 effective concentration, 50%
- ERC Environmental release categories
- EUH CLP Specific hazard statement · LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS Life cycle stage
   LD50 Lethal Dose, 50% / Median Lethal dose
- NOAEL No observed adverse effect level
- NOEL No observed effect level
- OECD Organisation for Economic Cooperation and Development • PBT - Persistent, Bioaccumulative and Toxic
- PNEC Predicted No Effect Concentration
- PROC Process categories
- REACH number REACH registration number, without supplier specific part
- vPvB very Persistent and very Bioaccumulative
- H290 May be corrosive to metals.

Revision: 2024-12-13

- H302 Harmful if swallowed.
  H314 Causes severe skin burns and eye damage.
  H318 Causes serious eye damage.
  H319 Causes serious eye irritation.
  H320 Causes eye irritation.
  H412 Harmful to aquatic life with long lasting effects.

End of Safety Data Sheet