

# **Safety Data Sheet**

According to Regulation (EC) No 1907/2006

## **Quattro Plus VC74**

**Revision:** 2024-08-07 **Version:** 07.3

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

#### 1.1 Product identifier

Trade name: Quattro Plus VC74

UFI: XT54-2068-Q005-VJJA

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

Product use: Defoaming agent.

Bottle wash.

For industrial use only..

Uses advised against: Uses other than those identified are not recommended.

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

AISE\_SWED\_IS\_1\_1 AISE\_SWED\_IS\_1\_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

#### **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)

### 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.

Reportable poison - Control of Poisons and Explosives Precursors Regulations 2015

## SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH	Classification	Notes	Weight
			number			percent
sodium hydroxide	215-185-5	1310-73-2	01-211945789	Skin corrosion, Category 1A (H314)		30-50
			2-27	Corrosive to metals, Category 1 (H290)		
alkyl alcohol ethoxylate	[4]	146340-16-1	[4]	Skin irritation, Category 2 (H315)		0.1-1
				Acute aquatic toxicity, Category 1 M=1 (H400)		
				Chronic aquatic toxicity, Category 3 (H412)		

#### Specific concentration limits

sodium hydroxide:

- Serious eye damage, Category 1 (H318) >= 2% > 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%

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

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.

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious Ingestion:

person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or

Self-protection of first aider: Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed

No known effects or symptoms in normal use. Inhalation:

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. 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 <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	-	-	-	-
alkyl alcohol ethoxylate	No data available	No data available	No data available	No data available

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 %	-	-	-
alkyl alcohol ethoxylate	No data available	No data available	No data available	No data available

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 %	-	-	-
alkyl alcohol ethoxylate	No data available	No data available	No data available	No data available

DNEL/DMEL inhalatory exposure - Worker (mg/m³)

NED/DIVIEE IIIII alatory exposure - worker (mg/m-)							
Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic			
	effects	effects	effects	effects			

alkyl alcohol ethoxylate	No data available	No data available	No data available	No data available

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	-
alkyl alcohol ethoxylate	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	-	-	-	-
alkyl alcohol ethoxylate	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	-	-	-	-
alkyl alcohol ethoxylate	No data available	No data available	No data available	No data available

### 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:

If the product is diluted by using specific dosing systems with no risk of splashes or direct skin Appropriate engineering controls:

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 worker exposure description	LCS	PROC	Duration (min)	ERC
Automatic application in a dedicated closed system	AISE_SWED_IS_1_1	IS	PROC 1	480	ERC4

Personal protective equipment

Hand protection:

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. 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 (EN 14605).

No special requirements under normal use conditions.

Respiratory protection:

**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): 11

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

Appropriate organisational controls:

REACH use scenarios considered for the diluted product: SWED LCS **PROC** Duration **ERC** 

				(min)	
Automatic application in a dedicated closed system	AISE_SWED_IS_1_1	IS	PROC 1	480	ERC4

Personal protective equipment

Hand protection:

Safety glasses or goggles (EN 16321 / EN 166). The use of a full-face shield or other full-face Eye / face protection:

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

he chosen

**Body protection:** Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may

occur (EN 14605).

No special requirements under normal use conditions. Respiratory protection:

**Environmental exposure controls:** No special requirements under normal use conditions.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Information in this section refers to the product, unless it is specifically stated that substance data is listed

Method / remark

Physical state: Liquid

Colour: Milky , Pale , Brown Odour: Product specific

Odour threshold: Not applicable

Melting point/freezing point (°C): Not determined Not relevant to classification of this product

Initial boiling point and boiling range (°C): Not determined See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
sodium hydroxide	> 990	Method not given	
alkyl alcohol ethoxylate	No data available		

### Method / remark

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 Decomposition temperature: Not applicable.

**pH:** >= 11.5 (neat)

Kinematic viscosity: Not determined

ISO 4316

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	
alkyl alcohol ethoxylate	Soluble	Method not given	20	

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

Method / remark

Vapour pressure: Not determined

See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sodium hydroxide	< 1330	Method not given	20

alkyl alcohol ethoxylate No data available

Method / remark

Relative density: ≈ 1.48 (20 °C) Relative vapour density: No data available. Particle characteristics: No data available. OECD 109 (EU A.3) Not relevant to classification of this product

Not applicable to liquids.

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

Alkali reserve: ≈ 33.9 (g NaOH / 100g; pH=10)

## **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

Substance data, 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				Not established
		available				
alkyl alcohol ethoxylate	LD 50	> 2000	Rat	OECD 401 (EU B.1)		Not established

Acute dermal toxicity

Ingredient(s)	Ingredient(s) Endpoint		Species	Method	Exposure time (h)	ATE Dermal (mg/kg)	
sodium hydroxide	LD 50	1350	Rabbit	Method not given		Not established	
alkyl alcohol ethoxylate		No data				Not established	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hydroxide		No data			
		available			
alkyl alcohol ethoxylate		No data			

	available		

## Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, du	st ATE - inhalation, mist	ATE - inhalation,	ATE - inhalation, gas
	(mg/l)	(mg/l)	vapour (mg/l)	(mg/l)
sodium hydroxide	Not established	Not established	Not established	Not established
alkyl alcohol ethoxyla	te 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	
alkyl alcohol ethoxylate	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	
alkyl alcohol ethoxylate	Not corrosive or irritant	Rabbit	OECD 405 (EU B.5)	

Respiratory tract irritation and corrosivity

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

### Sensitisation

Sensitisation by skin contact

Continuation by their contact				
Ingredient(s)	Result	Species	Method	Exposure time (h)
sodium hydroxide	Not sensitising		Human repeated patch	
			test	
alkyl alcohol ethoxylate	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			
alkyl alcohol ethoxylate	No data available			

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

Mutageriicity				
Ingredient(s)	Result (in-vitro)	Method	Result (in-vivo)	Method
• ( )	, ,	(in-vitro)	` ,	(in-vivo)
sodium hydroxide	No evidence for mutagenicity, negative	DNA repair test	No evidence for mutagenicity, negative	OECD 474 (EU
	test results	on rat	test results	B.12) OECD
		hepatocytes		475 (EU B.11)
		OECD 473		
alkyl alcohol ethoxylate	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
sodium hydroxide	No evidence for carcinogenicity, weight-of-evidence
alkyl alcohol ethoxylate	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value	Species	Method	Exposure	Remarks and other effects
			(mg/kg bw/d)			time	reported
sodium hydroxide			No data				No evidence for developmental
			available				toxicity No evidence for
							reproductive toxicity
alkyl alcohol ethoxylate			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				
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
Ī	sodium hydroxide		No data				
L			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				
alkyl alcohol ethoxylate		No data available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
sodium hydroxide			No data					
			available					
alkyl alcohol ethoxylate			No data					
			available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
sodium hydroxide	No data available
alkyl alcohol ethoxylate	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)		
sodium hydroxide	No data available		
alkyl alcohol ethoxylate	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

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hydroxide	LC 50	35	Various	Method not given	96
			species		
alkyl alcohol ethoxylate	LC 50	> 0.1 - 1	Leuciscus idus	DIN 38412, Part 15	48

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value	Species	Method	Exposure
		(mg/l)			time (h)
sodium hydroxide	EC 50	40.4	Ceriodaphnia	Method not given	48
			sp.		
alkyl alcohol ethoxylate	EC 50	>0.1 - 1	Daphnia	OECD 202 (EU C.2)	24
			magna Straus		

quatic short-term toxicity - algae Ingredient(s)		E	indpoint	Valu		Spec	ies		Method	Exposure
sodium hydroxide			EC 50	( <b>mg</b> ,		Photoba	acteriu	Met	hod not given	0.25
						m phosph				
alkyl alcohol ethoxylate			EC 50	> 0.1	- 1	Not spe	ecified	OEC	D 201 (EU C.3)	72
uatic short-term toxicity - marine species										
Ingredient(s)		E	indpoint	Valu (mg/		Spec	ies		Method	Exposure time (days
sodium hydroxide				No d	ata					time (day)
alkyl alcohol ethoxylate				No d availa	ata					
				avalle	abic					
pact on sewage plants - toxicity to bacteria  Ingredient(s)		1 =	indpoint	Valu	10	Inocu	lum [		Method	Exposur
• .,			паропп	(mg	/I)	mocu	iuiii		Wethou	time
sodium hydroxide				No d availa	able					
alkyl alcohol ethoxylate			EC <sub>0</sub>	> 10 -	100	Bact	eria	(	OECD 209	
quatic long-term toxicity uatic long-term toxicity - fish										
Ingredient(s)	Endpoint	Value (mg/l)	Sp	ecies	Me	ethod	Expos		Effects obs	served
sodium hydroxide		No data available								
alkyl alcohol ethoxylate		No data available								
		available	<del>'</del>							
uatic long-term toxicity - crustacea	Fuducint	Value	l c	!	l Ma	46 - 4	LEvre		Effects ob	nam ra d
Ingredient(s)	Endpoint	(mg/l)		ecies	IVIE	ethod	Expo		Effects obs	servea
sodium hydroxide		No data available	)							
alkyl alcohol ethoxylate	NOEC	> 0.1 - 1		aphnia nagna	OE	CD 202	21 da	ıy(s)		
			,							
quatic toxicity to other aquatic benthic organisms, i Ingredient(s)	Endpoint	Value	Sp	ecies		thod	Expo		Effects obs	served
		(mg/kg d					time (d	lays)		
sodium hydroxide		No data available								
alkyl alcohol ethoxylate		No data available								
	1	2.2.10010			1					
errestrial toxicity rrestrial toxicity - soil invertebrates, including earth	nworms if available	le·								
Ingredient(s)	Endpoint	Value		ecies	Me	thod	Expo		Effects obs	served
		(mg/kg d soil)					time (d	iays)		
sodium hydroxide		No data available								
rrestrial toxicity - plants, if available: Ingredient(s)	Endpoint	Value	Sp	ecies	Me	thod	Expos	sure	Effects obs	served
-		(mg/kg d soil)					time (c			
sodium hydroxide		No data available								
					•		•			
rrestrial toxicity - birds, if available:  Ingredient(s)	Endpoint	Value	Sn	ecies	Me	ethod	Expos	sure I	Effects obs	served
		- Tuiuc	J JP	-0.00	1416					, .u
sodium hydroxide	.,	No data					time (c	lays)		

Species

Exposure time (days)

Method

Effects observed

Value (mg/kg dw

Endpoint

Terrestrial toxicity - beneficial insects, if available: Ingredient(s)

	soil)		
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:

 tbiolic degradation priotodegradation in all, if a	one degradation photodegradation in an, in 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:

- :	more are graduation our					
	Ingredient(s)	Type	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)
alkyl alcohol ethoxylate	Activated sludge, aerobe		> 70% in 28 day(s)	OECD 301D	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Ready blodegradability - anaerobic and manne conditions, if available.								
Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation			
sodium hydroxide					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

## 12.3 Bioaccumulative potential

ranilion coefficient n-octanol/water (log i	(OW)			
Ingredient(s)	Value	Method	Evaluation	Remark
sodium hydroxide	No data available		Not relevant, does not bioaccumulate	
alkyl alcohol ethoxylate	No data available			

Bioconcentration factor (BCF)

Dioconcentration factor (	BCI )				
Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium hydroxide	No data available				
alkyl alcohol ethoxylate	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
alkyl alcohol ethoxylate	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:

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.

**European Waste Catalogue:** 20 01 15\* - alkalines.

**Empty packaging** 

Dispose of observing national or local regulations. Recommendation:

Suitable cleaning agents: 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
- Control of Poisons and Explosives Precursors Regulations 2015

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

### Ingredients according to Detergents Regulation

non-ionic surfactants

< 5 %

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.

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: MSDS1902 Version: 07.3 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):, 4, 8, 9, 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.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H400 Very toxic to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

**End of Safety Data Sheet**