

# Safety Data Sheet

According to Regulation (EC) No 1907/2006

# Suma Linos L6.8L

Revision: 2024-08-03 Version: 01.3

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

#### 1.1 Product identifier

Trade name: Suma Linos L6.8L

UFI: YQRU-20WE-J00F-AFX8

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

Product use: Dish wash product. For professional use only.

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

# $\mbox{SWED}$ - Sector-specific worker exposure description : $\mbox{AISE\_SWED\_PW\_8b\_1} \\ \mbox{AISE\_SWED\_PW\_1\_1} \\$

AISE\_SWED\_PW\_4\_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.

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Ingredient(s)	EC number	CAS number	mber REACH Classification number		Notes	Weight percent
tetrasodium (1-hydroxy	223-267-7	3794-83-0	[1]	Acute toxicity - Oral, Category 4 (H302)		3-10
ethylidene)bisphosphonate				Eye irritation, Category 2 (H319)		
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)		

#### 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

[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.

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. 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.

Eye contact: Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE,

doctor or physician.

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

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

physician.

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

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: No known effects or symptoms in normal use.

Skin contact: 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	UK - Short term
	value(s)	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
tetrasodium (1-hydroxy ethylidene)bisphosphonate	-	-	-	2.4
sodium hydroxide	-	-	-	-

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)
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available	-	No data available	48
sodium hydroxide	2 %	-	-	-

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)
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available	-	No data available	24
sodium hydroxide	2 %	-	-	-

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

	DIVEE/DIVICE IIIII alatory exposure - Worker (mg/m·)				
Ingredient(s)		Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
		effects	effects	effects	effects
	tetrasodium (1-hydroxy ethylidene)bisphosphonate	-	-	-	16.9

sodium hydroxide	-	-	1	-

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
tetrasodium (1-hydroxy ethylidene)bisphosphonate	10	-	10	4.2
sodium hydroxide	-	-	1	-

#### **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)
tetrasodium (1-hydroxy ethylidene)bisphosphonate	0.096	0.01	-	-
sodium hydroxide	-	-	-	-

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
tetrasodium (1-hydroxy ethylidene)bisphosphonate	193	19.3	14	-
sodium hydroxide	-	-	-	=

#### 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 worker exposure description	LCS	PROC	Duration (min)	ERC
Automatic transfer and dilution	AISE_SWED_PW_8b_1	PW	PROC 8b	60	ERC8b

Personal protective equipment

Hand protection:

**Body 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.

Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).

**Respiratory protection:** 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): 0.46

Appropriate engineering controls:

Appropriate organisational controls:

No special requirements under normal use conditions.

No special requirements under normal use conditions.

REACH use scenarios considered for the diluted product:

SWED	LCS	PROC	Duration	ERC
			(min)	

Automatic application in a dedicated closed system	AISE_SWED_PW_1_1	PW	PROC 1	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. No special requirements under normal use conditions. **Environmental exposure controls:** 

# 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: Clear , Light , Yellow Odour: Product specific

Odour threshold: Not applicable

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

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

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available		
sodium hydroxide	> 990	Method not given	

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.

ISO 4316 **pH:** >= 11.5 (neat) ISO 4316 **Dilution pH:** > 11 (0.46 %)

Kinematic viscosity: Not determined

Solubility in / Miscibility with water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)	
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available			
sodium hydroxide	1000	Method not given	20	

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

Method / remark

Vapour pressure: Not determined

Relative density: ≈ 1.15 (20 °C)

Relative vapour density: No data available.
Particle characteristics: No data available.

See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available		
sodium hydroxide	< 1330	Method not given	20

Method / remark

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

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

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)
tetrasodium (1-hydroxy ethylidene)bisphosphonate	LD 50	2850	Rat	OECD 401 (EU B.1)		940
sodium hydroxide		No data available				Not established

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Dermal (mg/kg)
tetrasodium (1-hydroxy ethylidene)bisphosphonate	LD 50	> 5000	Rabbit	OECD 402 (EU B.3)		Not established
sodium hydroxide	LD 50	1350	Rabbit	Method not given		Not established

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data			
		available			
sodium hydroxide		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)
tetrasodium (1-hydroxy ethylidene)bisphosphonate	Not established	Not established	Not established	Not established
sodium hydroxide	Not established	Not established	Not established	Not established

# Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
tetrasodium (1-hydroxy ethylidene)bisphosphonate	Mild irritant	Rabbit	OECD 404 (EU B.4)	4 hour(s)
sodium hydroxide	Corrosive	Rabbit	Method not given	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
tetrasodium (1-hydroxy ethylidene)bisphosphonate	Irritant	Rabbit	OECD 405 (EU B.5)	
sodium hydroxide	Corrosive	Rabbit	Method not given	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available			
sodium hydroxide	No data available			

Sensitisation Sensitisation by skin contact

Sensitisation by skin contact				
Ingredient(s)	Result	Species	Method	Exposure time (h)
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available			
sodium hydroxide	Not sensitising		Human repeated patch test	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available			
sodium hydroxide	No data available			

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

 agernoity				
Ingredient(s)	Result (in-vitro)	Method	Result (in-vivo)	Method
• ( )	` ,	(in-vitro)	` ,	(in-vivo)
tetrasodium (1-hydroxy	No evidence for mutagenicity, negative	draft OECD	No evidence of genotoxicity, negative	OECD 478
ethylidene)bisphosphonate	test results	487	test results	
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		

Carcinogenicity

Ingredient(s)	Effect
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No evidence for carcinogenicity, negative test results
sodium hydroxide	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
tetrasodium (1-hydroxy ethylidene)bisphosphon ate			112	Rat	OECD 416, (EU B.35), oral		No evidence for reproductive toxicity
sodium hydroxide			No data available				No evidence for developmental toxicity No evidence for reproductive toxicity

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
tetrasodium (1-hydroxy ethylidene)bisphosphonate	NOAEL	41	Rat	OECD 408 (EU B.26)	90	No effects observed
sodium hydroxide		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
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data			(,	
		available				
sodium hydroxide		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
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data				
		available				
sodium hydroxide		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
tetrasodium (1-hydroxy ethylidene)bisphosphon ate			No data available				0. ga0 a000	
sodium hydroxide			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available
sodium hydroxide	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available
sodium hydroxide	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.

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

#### Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
tetrasodium (1-hydroxy ethylidene)bisphosphonate	LC 50	195			
sodium hydroxide	LC 50	35	Various species	Method not given	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value	Species	Method	Exposure
		(mg/l)			time (h)
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data			
		available			
sodium hydroxide	EC 50	40.4	Ceriodaphnia	Method not given	48
·			sp.	_	

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No data available			
sodium hydroxide	EC 50	22	Photobacteriu m phosphoreum	Method not given	0.25

Ingredient(s)		End	lpoint	Valu		Spe	cies	Method	Exposur time (day
tetrasodium (1-hydroxy ethylidene)bispho	sphonate			(mg/ No da					time (day
sodium hydroxide				availa No da					
				availa					
act on sewage plants - toxicity to bacteria									
Ingredient(s)		End	dpoint	Valu (mg/		Inocu	ulum	Method	Exposu
tetrasodium (1-hydroxy ethylidene)bispho	sphonate			No da					
sodium hydroxide				No da availa	ata				
uatic long-term toxicity									
uatic long-term toxicity - fish Ingredient(s)	Endpoint	Value	Sp	ecies	Me	thod	Exposure	e Effe	ects observed
tetrasodium (1-hydroxy ethylidene)bisphosphonate		(mg/l) No data					time		
sodium hydroxide		available No data	1						
		available							
natic long-term toxicity - crustacea	1						1-		
Ingredient(s)	Endpoint	Value (mg/l)	Sp	ecies	Me	thod	Exposure time	Effe	ects observed
etrasodium (1-hydroxy ethylidene)bisphosphonate	NOEC	6.75		aphnia agna			28 day(s		
sodium hydroxide		No data available							
		i sedimenti						5)	
etrasodium (1-hydroxy ethylidene)bisphosphonate		No data available						1	
etrasodium (1-hydroxy ethylidene)bisphosphonate sodium hydroxide		No data						,	
sodium hydroxide		No data available No data available							
sodium hydroxide restrial toxicity	rms, if availabl	No data available No data available e: Value	Sp	ecies	Me	thod	Exposure	e Effe	ects observed
sodium hydroxide  restrial toxicity estrial toxicity - soil invertebrates, including earthwor		No data available No data available e:	Sp	ecies	Me	thod	Exposur time (days	e Effe	ects observed
sodium hydroxide  restrial toxicity estrial toxicity - soil invertebrates, including earthwor		No data available No data available e:  Value (mg/kg dw soil) No data	Sp	ecies	Me	thod		e Effe	ects observed
sodium hydroxide  restrial toxicity estrial toxicity - soil invertebrates, including earthwor Ingredient(s)		No data available No data available e: Value (mg/kg dw soil)	Sp	ecies	Me	thod		e Effe	ects observed
sodium hydroxide  restrial toxicity estrial toxicity - soil invertebrates, including earthwor Ingredient(s)  sodium hydroxide  restrial toxicity - plants, if available:	Endpoint	No data available No data available e: Value (mg/kg dw soil) No data available					time (days	e Effe	
sodium hydroxide  restrial toxicity estrial toxicity - soil invertebrates, including earthwor Ingredient(s)  sodium hydroxide		No data available No data available e:  Value (mg/kg dw soil) No data		ecies		thod		e Effe	ects observed
sodium hydroxide  restrial toxicity estrial toxicity - soil invertebrates, including earthwor Ingredient(s)  sodium hydroxide  estrial toxicity - plants, if available:	Endpoint	No data available No data available e: Value (mg/kg dw soil) No data available  Value (mg/kg dw syilable					time (days	e Effe	
restrial toxicity restrial toxicity restrial toxicity - soil invertebrates, including earthwor Ingredient(s)  sodium hydroxide restrial toxicity - plants, if available: Ingredient(s)  sodium hydroxide	Endpoint	No data available No data available Value (mg/kg dw soil) No data available  Value (mg/kg dw soil) No data available					time (days	e Effe	
sodium hydroxide  restrial toxicity estrial toxicity - soil invertebrates, including earthwor Ingredient(s)  sodium hydroxide  estrial toxicity - plants, if available: Ingredient(s)  sodium hydroxide	Endpoint	No data available No data available Value (mg/kg dw soil) No data available  Value (mg/kg dw soil) No data available	Sp		Me		Exposur (days	e Effe	
sodium hydroxide  restrial toxicity estrial toxicity - soil invertebrates, including earthwor Ingredient(s)  sodium hydroxide  restrial toxicity - plants, if available: Ingredient(s)  sodium hydroxide	Endpoint	No data available No data available No data available e:  Value (mg/kg dw soil) No data available  Value (mg/kg dw soil) No data available  Value (mg/kg dw soil) No data available	Sp	ecies	Me	thod	Exposur time (days	e Effe	ects observed
sodium hydroxide  rrestrial toxicity restrial toxicity - soil invertebrates, including earthwor  Ingredient(s)  sodium hydroxide  restrial toxicity - plants, if available: Ingredient(s)  sodium hydroxide  restrial toxicity - birds, if available: Ingredient(s)	Endpoint	No data available No data available  Value (mg/kg dw soil) No data available  Value (mg/kg dw soil) No data available  Value (mg/kg dw soil)  Value (wg/kg dw soil) No data available	Sp	ecies	Me	thod	Exposur (days	e Effe	ects observed
sodium hydroxide  restrial toxicity restrial toxicity - soil invertebrates, including earthwore Ingredient(s)  sodium hydroxide  restrial toxicity - plants, if available: Ingredient(s)  sodium hydroxide  restrial toxicity - birds, if available: Ingredient(s)  sodium hydroxide  restrial toxicity - beneficial insects, if available:	Endpoint Endpoint Endpoint	No data available No data available No data available e:  Value (mg/kg dw soil) No data available  Value (mg/kg dw available  Value (mg/kg dw available  Value (mg/kg dw available	Sp	ecies	Me	thod	Exposur-time (days	Effe Effe Effe Effe	ects observed
rrestrial toxicity restrial toxicity - soil invertebrates, including earthwor Ingredient(s)  sodium hydroxide restrial toxicity - plants, if available: Ingredient(s)  sodium hydroxide  restrial toxicity - birds, if available: Ingredient(s)	Endpoint	No data available No data available No data available e:  Value (mg/kg dw soil) No data available  Value (mg/kg dw soil) No data available  Value (mg/kg dw soil) No data available	Sp	ecies	Me	thod	Exposur (days	Effe Effe Effe	ects observed

Species

Exposure time (days)

Effects observed

Method

Value (mg/kg dw

Endpoint

Ingredient(s)

	soil)		
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

eady biodegradability - aerobic conditions								
Ingredient(s)	Inoculum	Analytical	DT 50	Method	Evaluation			
		method						
tetrasodium (1-hydroxy ethylidene)bisphosphonate	Activated sludge, aerobe			Read across	Not readily biodegradable.			
sodium hydroxide	40.000				Not applicable (inorganic			
•					substance)			

Ready biodegradability - anaerobic and marine 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

Partition coefficient n-octanol/water (log	nion coemicient n-octanoi/water (log Kow)							
Ingredient(s)	Value	Method	Evaluation	Remark				
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available							
sodium hydroxide	No data available		Not relevant, does not bioaccumulate					

	Bioconcentration factor (BCF)								
	Ingredient(s)	Value	Species	Method	Evaluation	Remark			
	tetrasodium (1-hydroxy ethylidene)bisphosphon								
	ate								
Ī	sodium hydroxide	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				
tetrasodium (1-hydroxy ethylidene)bisphosphonate	No data available								
sodium hydroxide	No data available				Mobile in soil				

**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.

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

**Empty packaging** 

Recommendation: Dispose of observing national or local regulations.

Water, if necessary with cleaning agent. Suitable cleaning agents:

# SECTION 14: Transport information



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

14.1 UN number or ID number: 1824 14.2 UN proper shipping name: Sodium hydroxide solution 14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 8

14.4 Packing group: II 14.5 Environmental hazards: Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user: None known.

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

# Other relevant information:

**ADR** 

Classification code: C5 Tunnel restriction code: (E) Hazard identification number: 80

IMO/IMDG

EmS: F-A, S-B

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

# **SECTION 15: Regulatory information**

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

#### National regulations:

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

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

# Ingredients according to Detergents Regulation

5 - 15 % phosphonates polycarboxylates < 5 %

Comah - classification: Not classified

#### 15.2 Chemical safety assessment

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

# SECTION 16: Other information

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

**SDS code:** MS1004423 Version: 01.3 Revision: 2024-08-03

#### Reason for revision:

This data sheet contains changes from the previous version in section(s):, 1, 8, 16

#### Classification procedure

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

#### Abbreviations and acronyms:

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

- EC50 effective concentration, 50%
- ERC Environmental release categories
- EUH CLP Specific hazard statement
- LC50 Lethal Concentration, 50% / Median Lethal Concentration
- LCS Life cycle stage
   LD50 Lethal Dose, 50% / Median Lethal dose
   NOAEL No observed adverse effect level
- NOEL No observed effect level
- OECD Organisation for Economic Cooperation and Development
- PBT Persistent, Bioaccumulative and Toxic
- PNEC Predicted No Effect Concentration
- PROC Process categories
   REACH number REACH registration number, without supplier specific part
- vPvB very Persistent and very Bioaccumulative
- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- H319 Causes serious eye irritation.

**End of Safety Data Sheet**