

# Safety Data Sheet

According to Regulation (EC) No 1907/2006

# Suma Linos L6.8L

**Revision:** 2022-12-01 **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 advised against: Uses other than those identified are not recommended.

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

AISE\_SWED\_PW\_8b\_1 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, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

Tel: 01 8081808 (9am - 5pm Mon-Fri) Email: dublin.orders@diversey.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 Corr. 1A (H314) Eye Dam. 1 (H318) Met. Corr. 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	REACH number	Classification	Notes	Weight percent
tetrasodium (1-hydroxy ethylidene)bisphosphonate	223-267-7	3794-83-0	[1]	Acute Tox. 4 (H302)		3-10
				Eye Irrit. 2 (H319)		
sodium hydroxide	215-185-5	1310-73-2	01-2119457892-27	Skin Corr. 1A (H314)		3-10
				Met. Corr. 1 (H290)		

#### Specific concentration limits

sodium hydroxide:

- Eye Dam. 1 (H318) >= 3% > Eye Irrit. 2 (H319) >= 0.5%
- Skin Corr. 1A (H314) >= 5% > Skin Corr. 1B (H314) >= 2% > Skin Irrit. 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, sawdust). 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)	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
tetrasodium (1-hydroxy ethylidene)bisphosphonate	-	-	-	2.4
sodium hydroxide	-	-	-	-

DNEL/DMEL dermal exposure - Worker

DNEL/DWEL dermai 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 %	-	-	-

DINEL/DIVIEL Innalatory exposure - Worker (mg/m²)				
Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
- '	-664-	l offeete l		

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

**Body protection:** 

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

strongly recommended when handling open containers or if splashes may occur.

Hand protection: Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and

breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such

as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time:  $\geq$  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: 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)	

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

**Environmental exposure controls:** 

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.

# 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 toxicological effects

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 (mg/kg)
tetrasodium (1-hydroxy ethylidene)bisphosphonate	LD 50	2850	Rat	OECD 401 (EU B.1)		12000
sodium hydroxide		No data available				Not established

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (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, mist		ATE - inhalation, gas
	(mg/l)	(mg/l)	vapour (mg/l)	(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

ensitisation 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		

Carcinogonicity

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					
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

6161 Tepeatea 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)		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

quatic short-term toxicity - marine species Ingredient(s)			Endpoint	Valu		Spec	cies	Method		xposure
tetrasodium (1-hydroxy ethylidene)bispho	sphonate			(mg No d					tin	ne (days
sodium hydroxide				availa No d						
Sodian nydioxido				availa						
npact on sewage plants - toxicity to bacteria										
Ingredient(s)			Endpoint	Vali (mg		Inocu	ulum	Method	l E	xposure time
tetrasodium (1-hydroxy ethylidene)bispho	sphonate			No d availa	ata					
sodium hydroxide				No d availa	ata					
quatic long-term toxicity										
quatic long-term toxicity - fish Ingredient(s)	Endpoint	Valu (mg/l		pecies	M	ethod	Exposu	e Effe	ects observ	ved
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No da availat	ta				unie			
sodium hydroxide		No da availat	ta							
	•				•		•	,		
quatic long-term toxicity - crustacea Ingredient(s)	Endpoint	Valu (mg/l	-	pecies	M	ethod	Exposu	e Eff	ects observ	ved
tetrasodium (1-hydroxy ethylidene)bisphosphonate	NOEC	6.75	E	Daphnia magna			28 day(s	5)		
sodium hydroxide		No da availat	ta	······g·····						
quatic toxicity to other aquatic benthic organisms, incluing Ingredient(s)	Endpoint	Valu	e S	if available pecies		ethod	Exposu		ects observ	ved
		(mg/kg sedime					time (day	s)		
tetrasodium (1-hydroxy ethylidene)bisphosphonate		No da availat								
sodium hydroxide		No da availat	ta							
	<u> </u>	avalla	<u> </u>		<u>. 1</u>					
errestrial toxicity errestrial toxicity - soil invertebrates, including earthwo	rms if availahl	۵.								
Ingredient(s)	Endpoint	Valu	-	pecies	Me	ethod	Exposu		ects observ	ved
		(mg/kg soil)					time (day	s)		
sodium hydroxide		No da availat								
	•							'		
errestrial toxicity - plants, if available:  Ingredient(s)	Endpoint	Valu	e S	pecies	l M	ethod	Exposu	e Effe	ects observ	ved
		(mg/kg soil)	dw				time (day			
sodium hydroxide		No da availat	ta							
	•							•		
errestrial toxicity - birds, if available: Ingredient(s)	Endpoint	Value	s	pecies	Me	ethod	Exposu	e Effe	ects observ	ved
sodium hydroxide		No da					time (day			
- Coalan Tyaloxido		availal								
errestrial toxicity - beneficial insects, if available:										
Ingredient(s)	Endpoint	Value (mg/kg	dw	pecies	M	ethod	Exposu time (day		ects observ	/ed
sodium hydroxide		soil) No da availat	ta							
	1	<u>avalidi</u>	л <b>с</b> [		1			L		
errestrial toxicity - soil bacteria, if available: Ingredient(s)	Endpoint	Valu	ء ا ہ	pecies	N/A	ethod	Exposu	o E#	ects observ	ved
ingredient(s)	Liapoliit	(mg/kg		Peoles	1410	Juliou	time (day		COLO UDOCI \	- Gu

	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)	Type	Half-life time	Method	Evaluation	Remark
sodium hydroxide		No data available			

Biodegradation

Pendy biodegradability - aerobic conditions

	Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
	tetrasodium (1-hydroxy ethylidene)bisphosphonate	Activated sludge, aerobe			Read across	Not readily biodegradable.
Ī	sodium hydroxide					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 Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
tetrasodium (1-hydroxy	No data available			
ethylidene)bisphosphonate				
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					
sodium hydroxide	No data available				

# 12.4 Mobility in soil

Adsorption/Desorption to soil or sediment							
Ingredient(s)	Adsorption	Desorption	Method	Soil/sediment	Evaluation		
-	coefficient	coefficient		type			
	Log Koc	Log Koc(des)					
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.

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

**Empty packaging** 

Recommendation: Dispose of observing national or local regulations.

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: 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 Transport in bulk according to Annex II of MARPOL and the IBC Code: The product is not transported in bulk tankers.

# Other relevant information:

**ADR** 

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

IMO/IMDG

EmS: F-A, S-B

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

# **SECTION 15: Regulatory information**

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

#### 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

phosphonates 5 - 15 % polycarboxylates < 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

**SDS code:** MS1004423 Version: 01.3 Revision: 2022-12-01

#### 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.

# Full text of the H and EUH phrases mentioned in section 3:

- H290 May be corrosive to metals.H302 Harmful if swallowed.
- · H319 Causes serious eve irritation.

#### 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

**End of Safety Data Sheet**