

# Safety Data Sheet

According to Regulation (EC) No 1907/2006

# **Domestos Professional Citrus Fresh**

Revision: 2023-10-19

Version: 01.1

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

#### **1.1 Product identifier**

**Trade name:** Domestos Professional Citrus Fresh Domestos is a registered trade mark and is used under licence of Unilever

UFI: N93K-21XU-C00P-JCSQ

1.2 Relevant identified uses of the substance or mixture and uses advised against Product use: Surface disinfectant.

Hard surface cleaner. for general surface disinfection For professional use only. Uses other than those identified are not recommended.

Uses advised against:

 $\mbox{SWED}$  - Sector-specific worker exposure description : <code>AISE\_SWED\_PW\_19\_2</code>

**1.3 Details of the supplier of the safety data sheet** Diversey Europe Operations BV, 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@diversey.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 1B (H314) Serious eye damage, Category 1 (H318) Acute aquatic toxicity, Category 1 (H400) Chronic aquatic toxicity, Category 2 (H411) Corrosive to metals, Category 1 (H290)

#### 2.2 Label elements



Signal word: Danger.

Contains sodium hypochlorite (active chlorine) (Sodium Hypochlorite), amines, C12-18-alkyldimethyl, N-oxides (Cocamine Oxide)

### Hazard statements:

H290 - May be corrosive to metals. H314 - Causes severe skin burns and eye damage. H410 - Very toxic to aquatic life with long lasting effects.

#### Precautionary statements:

P260 - Do not breathe vapours.

P280 - Wear protective gloves, protective clothing and eye or face protection.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTRE, doctor or physician.

#### 2.3 Other hazards

No other hazards known.

# SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
sodium hypochlorite (active chlorine)	231-668-3	7681-52-9	[-]	EUH031 Skin corrosion, Category 1B (H314) Serious eye damage, Category 1 (H318) Acute aquatic toxicity, Category 1 M=10 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410) Corrosive to metals, Category 1 (H290)		3-10
amines, C12-18-alkyldimethyl, N-oxides	931-341-1	68955-55-5		Acute toxicity - Oral, Category 4 (H302) Skin irritation, Category 2 (H315) Serious eye damage, Category 1 (H318) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 2 (H411)		1-3
sodium hydroxide	215-185-5	1310-73-2		Skin corrosion, Category 1A (H314) Corrosive to metals, Category 1 (H290)		0.1-1

#### 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.

[6] Exempted: biocidal active. See Article 15(2) 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.
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 eff	ects, both acute and delayed
Inhalation:	May cause bronchospasm in chlorine sensitive individuals.
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

#### 4.3 Indication of any immediate medical attention and special treatment needed

oesophagus and stomach.

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

Ensure adequate ventilation. Do not breathe dust or vapour. 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. Do not allow to enter the ground/soil. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

#### 6.3 Methods and material for containment and cleaning up

Ensure adequate ventilation. Dyke to collect large liquid spills. 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. Do not breathe vapours. 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. Keep from freezing. 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 hypochlorite (active chlorine)	-	-	-	0.26
amines, C12-18-alkyldimethyl, N-oxides	No data available	No data available	No data available	No data available
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)
sodium hypochlorite (active chlorine)	-	-	0.5 %	-
amines, C12-18-alkyldimethyl, N-oxides	No data available	No data available	No data available	No data available
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)
sodium hypochlorite (active chlorine)	-	-	0.5 %	-
amines, C12-18-alkyldimethyl, N-oxides	No data available	No data available	No data available	No data available
sodium hydroxide	2 %	-	-	-

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

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sodium hypochlorite (active chlorine)	3.1	3.1	1.55	1.55
amines, C12-18-alkyldimethyl, N-oxides	No data available	No data available	No data available	No data available
sodium hydroxide	-	-	1	-

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

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sodium hypochlorite (active chlorine)	3.1	3.1	1.55	1.55
amines, C12-18-alkyldimethyl, N-oxides	No data available	No data available	No data available	No data available
sodium hydroxide	-	-	1	-

# Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
sodium hypochlorite (active chlorine)	0.00021	0.000042	0.00026	0.03
amines, C12-18-alkyldimethyl, N-oxides	No data available	No data available	No data available	No data available
sodium hydroxide	-	-	-	-

#### Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
sodium hypochlorite (active chlorine)	-	-	-	-
amines, C12-18-alkyldimethyl, N-oxides	No data available	No data available	No data available	No data available
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: Appropriate organisational controls:

No special requirements under normal use conditions.

ational 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
Manual application	AISE_SWED_PW_19_2	PW	PROC 19	480	ERC8a

#### Personal protective equipment Eye / face protection:

Hand 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:  $\geq$  30 min Material thickness:  $\geq$  0.4 mm

Environmental exposure controls:	Should not reach sewage water or drainage ditch undiluted or unneutralised.
Respiratory protection:	Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.
Body protection:	be chosen. Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).
	In consultation with the supplier of protective gloves a different type providing similar protection may

# **SECTION 9: Physical and chemical properties**

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

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

Not relevant to classification of this product See substance data

Substance data, boiling point

Ingredient(s)	Value	Method	Atmospheric pressure
	(°C)		(hPa)
sodium hypochlorite (active chlorine)	Product decomposes before boiling	Method not given	1013
amines, C12-18-alkyldimethyl, N-oxides	No data available		
sodium hydroxide	> 990	Method not given	

Flammability (solid, gas): Not applicable to liquids
Flammability (liquid): Not flammable.
Flash point (°C): Not determined
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:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
sodium hypochlorite (active chlorine)	-	-

Autoignition temperature: Not determined Decomposition temperature: Not applicable. pH: >= 11.5 (neat) Kinematic viscosity: Not determined Solubility in / Miscibility with water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value	Method	Temperature
	(g/l)		(°°)
sodium hypochlorite (active chlorine)	Soluble		
amines, C12-18-alkyldimethyl, N-oxides	No data available		
sodium hydroxide	1000	Method not given	20

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

#### Vapour pressure: Not determined

# Method / remark

See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sodium hypochlorite (active chlorine)	Negligible		
amines, C12-18-alkyldimethyl, N-oxides	No data available		
sodium hydroxide	< 1330	Method not given	20

Relative density:  $\approx 1.08 (20 \ ^{\circ}C)$ Relative vapour density: -.

# Method / remark

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

See substance data

Method / remark

Refer Test Method Notes

ISO 4316

Method / remark

Method / remark

### 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. Reacts with acids releasing toxic chlorine gas.

#### **10.6 Hazardous decomposition products**

Chlorine.

# **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 (mg/kg)
sodium hypochlorite (active chlorine)	LD 50	1100	Rat	OECD 401 (EU B.1)	90	Not established
amines, C12-18-alkyldimethyl, N-oxides	LD 50	846	Rat	OECD 401 (EU B.1)		846
sodium hydroxide		No data available				Not established

Acute dermal toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	ATE
		(mg/kg)			time (h)	(mg/kg)
sodium hypochlorite (active chlorine)	LD 50	> 20000	Rabbit	OECD 402 (EU B.3)		Not established
amines, C12-18-alkyldimethyl, N-oxides		No data				Not established
		available				
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)
sodium hypochlorite (active chlorine)	LC 50	> 10.5 (vapour)	Rat	OECD 403 (EU B.2)	1
amines, C12-18-alkyldimethyl, N-oxides		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)
sodium hypochlorite (active chlorine)	Not established	Not established	Not established	Not established
amines, C12-18-alkyldimethyl, N-oxides	Not established	Not established	Not established	Not established
sodium hydroxide	Not established	Not established	Not established	Not established

# Irritation and corrosivity

Skin initiation and conosivity				
Ingredient(s)	Result	Species	Method	Exposure time
sodium hypochlorite (active chlorine)	Corrosive	Rabbit	OECD 404 (EU B.4)	
amines, C12-18-alkyldimethyl, N-oxides	Irritant	Rabbit	OECD 404 (EU B.4)	
sodium hydroxide	Corrosive	Rabbit	Method not given	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium hypochlorite (active chlorine)	Severe damage	Rabbit	OECD 405 (EU B.5)	
amines, C12-18-alkyldimethyl, N-oxides	Severe damage	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
sodium hypochlorite (active chlorine)	Irritating to			
	respiratory tract			
amines, C12-18-alkyldimethyl, N-oxides	No data available			
sodium hydroxide	No data available			

#### Sensitisation Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sodium hypochlorite (active chlorine)	Not sensitising	Guinea pig	OECD 406 (EU B.6) /	
			Buehler test	
amines, C12-18-alkyldimethyl, N-oxides	No data available			
sodium hydroxide	Not sensitising		Human repeated patch	
			test	

#### Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium hypochlorite (active chlorine)	Not sensitising			
amines, C12-18-alkyldimethyl, N-oxides	No data available			
sodium hydroxide	No data available			

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

Ingredient(s)	Result (in-vitro)	Method	Result (in-vivo)	Method
		(in-vitro)		(in-vivo)
sodium hypochlorite (active chlorine)	No evidence for mutagenicity	OECD 471 (EU	No evidence for mutagenicity, negative	OECD 474 (EU
		B.12/13)	test results	B.12)
amines, C12-18-alkyldimethyl, N-oxides	No data available		No data available	
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
sodium hypochlorite (active chlorine)	No evidence for carcinogenicity, negative test results
amines, C12-18-alkyldimethyl, N-oxides	No data available
sodium hydroxide	No evidence for carcinogenicity, weight-of-evidence

#### Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value	Species	Method	Exposure	Remarks and other effects
			(mg/kg bw/d)			time	reported
sodium hypochlorite (active chlorine)	NOAEL	Developmental toxicity Impaired fertility	5 (Cl)	Rat	OECD 414 (EU B.31), oral OECD 415 (EU		No evidence for reproductive toxicity
amines			No data		B.34), oral		
amines,			No data				

C12-18-alkyldimethyl, N-oxides	available		
sodium hydroxide	No data available		No evidence for developmental toxicity No evidence for
			reproductive toxicity

#### Repeated dose toxicity

Sub-acute o	sub-chronic	; oral	toxicity	

Ingredient(s)	Endpoint	Value	Species	Method		Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
sodium hypochlorite (active chlorine)	NOAEL	50	Rat	OECD 408 (EU	90	
				B.26)		
amines, C12-18-alkyldimethyl, N-oxides		No data				
		available				
sodium hydroxide		No data				
		available				

#### Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
sodium hypochlorite (active chlorine)		No data				
		available				
amines, C12-18-alkyldimethyl, N-oxides		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
sodium hypochlorite (active chlorine)		No data				
		available				
amines, C12-18-alkyldimethyl, N-oxides		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
	Toule					ume	organs affected	
sodium hypochlorite			No data					
(active chlorine)			available					
amines,			No data					
C12-18-alkyldimethyl,			available					
N-oxides								
sodium hydroxide			No data					
-			available					

#### STOT-single exposure

Ingredient(s)	Affected organ(s)
sodium hypochlorite (active chlorine)	Not applicable
amines, C12-18-alkyldimethyl, N-oxides	No data available
sodium hydroxide	No data available

# STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sodium hypochlorite (active chlorine)	Not applicable
amines, C12-18-alkyldimethyl, N-oxides	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)
sodium hypochlorite (active chlorine)	LC 50	0.06	Oncorhynchus mykiss	Method not given	96
amines, C12-18-alkyldimethyl, N-oxides		No data available			
sodium hydroxide	LC 50	35	Various species	Method not given	96

Aquatic short-term toxicity - crustacea					
Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hypochlorite (active chlorine)	EC 50	0.035	Ceriodaphnia dubia	OECD 202 (EU C.2)	48
amines, C12-18-alkyldimethyl, N-oxides		No data available			
sodium hydroxide	EC 50	40.4	Ceriodaphnia sp.	Method not given	48

#### Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hypochlorite (active chlorine)	NOEC	0.0021	Not specified	Method not given	168
amines, C12-18-alkyldimethyl, N-oxides		No data available			
sodium hydroxide	EC 50	22	Photobacteriu m phosphoreum	Method not given	0.25

#### Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sodium hypochlorite (active chlorine)	EC 50	0.026	Crassostrea virginica	Method not given	2
amines, C12-18-alkyldimethyl, N-oxides		No data available			
sodium hydroxide		No data available			

#### Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
sodium hypochlorite (active chlorine)		0.375	Activated sludge	Method not given	
amines, C12-18-alkyldimethyl, N-oxides		No data available			
sodium hydroxide		No data available			

#### Aquatic long-term toxicity Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium hypochlorite (active chlorine)	NOEC	0.04	Menidia pelinsulae	Method not given	96 hour(s)	
amines, C12-18-alkyldimethyl, N-oxides		No data available				
sodium hydroxide		No data available				

#### Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium hypochlorite (active chlorine)	NOEC	0.007	Crassostrea virginica	Method not given	15 day(s)	

amines, C12-18-alkyldimethyl, N-oxides	No data available		
sodium hydroxide	No data available		

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

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw sediment)			time (days)	
sodium hypochlorite (active chlorine)		No data available				
amines, C12-18-alkyldimethyl, N-oxides		No data available				
sodium hydroxide		No data available				

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

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw soil)			time (days)	
sodium hypochlorite (active chlorine)		No data				
		available				
sodium hydroxide		No data				
		available				

#### Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium hypochlorite (active chlorine)		No data				
		available				
sodium hydroxide		No data				
		available				

#### Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
					time (days)	
sodium hypochlorite (active chlorine)		No data				
		available				
sodium hydroxide		No data				
		available				

#### Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium hypochlorite (active chlorine)		No data				
		available				
sodium hydroxide		No data				
		available				

#### Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw soil)			time (days)	
		5011)				
sodium hypochlorite (active chlorine)		No data				
		available				
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 hypochlorite (active chlorine)	115 day(s)	Indirect photo-oxidation		
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 hypochlorite (active chlorine)	No data available			
sodium hydroxide	No data available			

Abiotic degradation - other processes, if available:

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

Biodegradation Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
sodium hypochlorite (active chlorine)					Not applicable (inorganic substance)
amines, C12-18-alkyldimethyl, N-oxides			90%	OECD 301D	Readily biodegradable
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 hypochlorite (active chlorine)					No data available
amines, C12-18-alkyldimethyl, N-oxides					Readily biodegradable
sodium hydroxide					No data available

#### Degradation in relevant environmental compartments, if available:

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

#### 12.3 Bioaccumulative potential Water (leg Kow) Dortit

Farilion coencient n-octanol/water (log r	(0w)			
Ingredient(s)	Value	Method	Evaluation	Remark
sodium hypochlorite (active chlorine)	-3.42	Method not given	No bioaccumulation expected	
amines, C12-18-alkyldimethyl, N-oxides	No data available			
sodium hydroxide	No data available		Not relevant, does not bioaccumulate	

#### Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium hypochlorite (active chlorine)	No data available				
amines, C12-18-alkyldimethyl, N-oxides	No data available				
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
sodium hypochlorite (active chlorine)	1.12				High potential for mobility in soil
amines, C12-18-alkyldimethyl, N-oxides	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

**European Waste Catalogue:** 

material is suitable for energy recovery or recycling in line with local legislation. 20 01 15\* - alkalines.

Empty packaging **Recommendation:** Suitable cleaning agents:

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

# SECTION 14: Transport information



Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR) 14.1 UN number or ID number: 3266 14.2 UN proper shipping name: Corrosive liquid, basic, inorganic, n.o.s. (sodium hypochlorite, sodium hydroxide) 14.3 Transport hazard class(es): Transport hazard class (and subsidiary risks): 8 14.4 Packing group: III 14.5 Environmental hazards: Environmentally hazardous: Yes Marine pollutant: Yes 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)
- Biocidal Products Regulations 2001 (SI 2001/880)
- 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

chlorine-based bleaching agents, non-ionic surfactants, soap perfumes

< 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:** MS1005398

Version: 01.1

Revision: 2023-10-19

#### Reason for revision:

This data sheet contains changes from the previous version in section(s):, 3, 4, 9, 10, 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. • H314 - Causes severe skin burns and eye damage.
- · H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H400 Very toxic to aquatic life.
- · H410 Very toxic to aquatic life with long lasting effects.
- · H411 Toxic to aquatic life with long lasting effects.
- EUH031 Contact with acids liberates toxic gas.

End of Safety Data Sheet