Safety Data Sheet

According to Regulation (EC) No 1907/2006

Cif Professional Cream With Bleach

Revision: 2024-08-08 **Version:** 09.0

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

1.1 Product identifier

Trade name: Cif Professional Cream With Bleach

Cif is a registered trade mark and is used under licence of Unilever

UFI: WKN4-30WJ-D009-N8SE

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

Product use:	Hard surface cleaner.
Uses advised against:	Uses other than those identified are not recommended.

SWED - Sector-specific worker exposure description :
AISE_SWED_PW_19_2
PC35-Washing and cleaning products

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 irritation, Category 2 (H315)
Serious eye damage, Category 1 (H318)
Chronic aquatic toxicity, Category 3 (H412)

2.2 Label elements

Signal word: Danger.

Contains alcohols, C12-14, ethoxylated, sulphates, sodium salts (Sodium Laureth Sulfate), sodium hypochlorite (active chlorine) (Sodium Hypochlorite), 3,7-dimethyloctan-3-ol (Tetrahydrolinalool)

Hazard statements:
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H412 - Harmful to aquatic life with long lasting effects.
EUH206 - Warning! Do not use together with other products. May release dangerous gases (chlorine).
EUH208 - May produce an allergic reaction.

Precautionary statements:
P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P280 - Wear eye or face protection.
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.
P501 - Dispose of unused content as chemical waste.

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
calcium carbonate	207-439-9	471-34-1	01-2119486795-18	Not classified as hazardous		30-50
sodium carbonate	207-838-8	497-19-8	01-2119485498-19	Eye irritation, Category 2 (H319)		3-10
alcohols, C12-14, ethoxylated, sulphates, sodium salts	500-234-8	68891-38-3	01-2119488639-16	Skin irritation, Category 2 (H315) Serious eye damage, Category 1 (H318) Chronic aquatic toxicity, Category 3 (H412)		3-10
sodium hypochlorite (active chlorine)	231-668-3	7681-52-9	01-2119488154-34	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)		1-3
sodium hydroxide	215-185-5	1310-73-2	01-2119457892-27	Skin corrosion, Category 1A (H314) Corrosive to metals, Category 1 (H290)		0.1-1
3,7-dimethyloctan-3-ol	201-133-9	78-69-3	01-2119454788-21	Skin irritation, Category 2 (H315) Eye irritation, Category 2 (H319) Skin sensitisation, Sub-category 1B (H317)		0.1-1

Specific concentration limits
sodium hypochlorite (active chlorine):
• EUH031 >= 5%
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.
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
Inhalation: Get medical attention or advice if you feel unwell.
Skin contact: Wash skin with plenty of lukewarm, gently flowing water. 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. Get medical attention or advice if you feel unwell.
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: May cause bronchospasm in chlorine sensitive individuals.
Skin contact: Causes irritation.
Eye contact: Causes severe or permanent damage.
Ingestion: No known effects or symptoms in normal use.

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 eye/face protection. Repeated or prolonged contact:. 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
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:
Follow general hygiene considerations recognised as common good workplace practices. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Do not mix with other products unless adviced by Diversey. Wash hands thoroughly after handling. Wash face, hands and any exposed skin thoroughly after handling. Take off 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. Keep out of reach of children.
For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

Comah - Lower Tier requirements (tonnes): 200
Comah - Upper Tier requirements (tonnes): 500

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)
calcium carbonate	10 mg/m³ inhalable dust 4 mg/m³ respirable dust	30 mg/m³ inhalable dust 12 mg/m³ respirable dust
sodium hydroxide		2 mg/m³

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
calcium carbonate	No data available	No data available	No data available	No data available
sodium carbonate	-	-	-	-

alcohols, C12-14, ethoxylated, sulphates, sodium salts	-	-	-	15
sodium hypochlorite (active chlorine)	-	-	-	0.26
sodium hydroxide	-	-	-	-
3,7-dimethyloctan-3-ol	No data available	No data available	No data available	No data available

DNEL/DMEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
calcium carbonate	No data available	No data available	No data available	No data available
sodium carbonate	-	-	No data available	-
alcohols, C12-14, ethoxylated, sulphates, sodium salts	-	-	-	2750
sodium hypochlorite (active chlorine)	-	-	0.5 %	-
sodium hydroxide	2 %	-	-	-
3,7-dimethyloctan-3-ol	No data available	No data available	No data available	No data available

DNEL/DMEL dermal exposure - Consumer

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
calcium carbonate	No data available	No data available	No data available	No data available
sodium carbonate	No data available	-	No data available	-
alcohols, C12-14, ethoxylated, sulphates, sodium salts	-	-	-	1650
sodium hypochlorite (active chlorine)	-	-	0.5 %	-
sodium hydroxide	2 %	-	-	-
3,7-dimethyloctan-3-ol	No data available	No data available	No data available	No data available

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

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
calcium carbonate	No data available	No data available	No data available	No data available
sodium carbonate	-	-	10	-
alcohols, C12-14, ethoxylated, sulphates, sodium salts	-	-	-	175
sodium hypochlorite (active chlorine)	3.1	3.1	1.55	1.55
sodium hydroxide	-	-	1	-
3,7-dimethyloctan-3-ol	No data available	No data available	No data available	No data available

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

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
calcium carbonate	No data available	No data available	No data available	No data available
sodium carbonate	10	-	-	-
alcohols, C12-14, ethoxylated, sulphates, sodium salts	-	-	-	52
sodium hypochlorite (active chlorine)	3.1	3.1	1.55	1.55
sodium hydroxide	-	-	1	-
3,7-dimethyloctan-3-ol	No data available	No data available	No data available	No data available

Environmental exposure

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
calcium carbonate	No data available	No data available	No data available	No data available
sodium carbonate	-	-	-	-
alcohols, C12-14, ethoxylated, sulphates, sodium salts	0.24	0.024	0.071	10000
sodium hypochlorite (active chlorine)	0.00021	0.000042	0.00026	0.03
sodium hydroxide	-	-	-	-
3,7-dimethyloctan-3-ol	No data available	No data available	No data available	No data available

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
calcium carbonate	No data available	No data available	No data available	No data available
sodium carbonate	-	-	-	-
alcohols, C12-14, ethoxylated, sulphates, sodium salts	5.45	0.545	0.946	-
sodium hypochlorite (active chlorine)	-	-	-	-
sodium hydroxide	-	-	-	-
3,7-dimethyloctan-3-ol	No data available	No data available	No data available	No data available

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet.

If available, please refer to the product information sheet for application and handling instructions.
Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

Appropriate engineering controls: No special requirements under normal use conditions.
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
PC35-Washing and cleaning products	PC35-Washing and cleaning products	C	-	-	ERC8a
Manual application	AISE_SWED_PW_19_2	PW	PROC 19	480	ERC8a

Personal protective equipment
Eye / face protection: Safety glasses or goggles (EN 16321 / EN 166).
Hand protection: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary. Repeated or prolonged contact: Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.
Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm
Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm
In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.
Body protection: No special requirements under normal use conditions.
Respiratory protection: No special requirements under normal use conditions.

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

SECTION 9: Physical and chemical properties

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

Method / remark

Physical state: Liquid
Colour: Milky , White
Odour: Slightly perfumed
Odour threshold: Not applicable
Melting point/freezing point (°C): Not determined — Not relevant to classification of this product
Initial boiling point and boiling range (°C): Not determined — See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
calcium carbonate	No data available		
sodium carbonate	1600	Method not given	1013
alcohols, C12-14, ethoxylated, sulphates, sodium salts	> 100	Method not given	
sodium hypochlorite (active chlorine)	Product decomposes before boiling	Method not given	1013
sodium hydroxide	> 990	Method not given	
3,7-dimethyloctan-3-ol	No data available		

Method / remark

Flammability (solid, gas): Not applicable to liquids
Flammability (liquid): Not flammable.
Flash point (°C): Not applicable.
Sustained combustion: Not applicable.
(UN Manual of Tests and Criteria, section 32, L.2)
Lower and upper explosion limit/flammability limit (%): Not determined — See substance data

Substance data, flammability or explosive limits, if available:

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

Method / remark

Autoignition temperature: Not determined
Decomposition temperature: Not applicable.
pH: >= 11.5 (neat) ISO 4316
Dilution pH: ≈ 12 (10%)
Kinematic viscosity: ≈ 550 mPa.s (20 °C)
Solubility in / Miscibility with water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
calcium carbonate	No data available		
sodium carbonate	210-215	Method not given	20
alcohols, C12-14, ethoxylated, sulphates, sodium salts	280 Soluble	Method not given	20
sodium hypochlorite (active chlorine)	Soluble		
sodium hydroxide	1000	Method not given	20
3,7-dimethyloctan-3-ol	No data available		

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

Method / remark

Vapour pressure: Not determined See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
calcium carbonate	No data available		
sodium carbonate	Negligible		
alcohols, C12-14, ethoxylated, sulphates, sodium salts	No data available		
sodium hypochlorite (active chlorine)	Negligible		
sodium hydroxide	< 1330	Method not given	20
3,7-dimethyloctan-3-ol	No data available		

Method / remark

Relative density: ≈ 1.54 (20 °C) OECD 109 (EU A.3)
Relative vapour density: -. Not relevant to classification of this product
Particle characteristics: No data available. 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: Not 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
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 Oral (mg/kg)
calcium carbonate		No data available				Not established
sodium carbonate	LD_{50}	2800	Rat	OECD 401 (EU B.1)		2800
alcohols, C12-14, ethoxylated, sulphates, sodium salts	LD_{50}	> 2000	Rat	OECD 401 (EU B.1)		Not established
sodium hypochlorite (active chlorine)	LD_{50}	1100	Rat	OECD 401 (EU B.1)	90	Not established
sodium hydroxide		No data available				Not established
3,7-dimethyloctan-3-ol		8270				Not established

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Dermal (mg/kg)
calcium carbonate		No data available				Not established
sodium carbonate	LD_{50}	> 2000	Rabbit	Method not given		Not established
alcohols, C12-14, ethoxylated, sulphates, sodium salts	LD_{50}	> 2000	Rat	OECD 402 (EU B.3)		Not established
sodium hypochlorite (active chlorine)	LD_{50}	> 20000	Rabbit	OECD 402 (EU B.3)		Not established
sodium hydroxide	LD_{50}	1350	Rabbit	Method not given		Not established
3,7-dimethyloctan-3-ol		No data available				Not established

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
calcium carbonate		No data available			
sodium carbonate	LC_{50}	> 2.3 (dust)		Weight of evidence	2
alcohols, C12-14, ethoxylated, sulphates, sodium salts		5.71			
sodium hypochlorite (active chlorine)	LC_{50}	> 10.5 (vapour)	Rat	OECD 403 (EU B.2)	1
sodium hydroxide		No data available			
3,7-dimethyloctan-3-ol		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)
calcium carbonate	Not established	Not established	Not established	Not established
sodium carbonate	Not established	Not established	Not established	Not established
alcohols, C12-14, ethoxylated, sulphates, sodium salts	Not established	Not established	Not established	Not established
sodium hypochlorite (active chlorine)	Not established	Not established	Not established	Not established
sodium hydroxide	Not established	Not established	Not established	Not established
3,7-dimethyloctan-3-ol	Not established	Not established	Not established	Not established

Irritation and corrosivity
Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
calcium carbonate	No data available			
sodium carbonate	Not irritant	Rabbit	OECD 404 (EU B.4)	
alcohols, C12-14, ethoxylated, sulphates, sodium salts	Irritant	Rabbit	OECD 404 (EU B.4)	
sodium hypochlorite (active chlorine)	Corrosive	Rabbit	OECD 404 (EU B.4)	
sodium hydroxide	Corrosive	Rabbit	Method not given	
3,7-dimethyloctan-3-ol	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
calcium carbonate	No data available			
sodium carbonate	Irritant	Rabbit	OECD 405 (EU B.5)	
alcohols, C12-14, ethoxylated, sulphates, sodium salts	Severe damage	Rabbit	OECD 405 (EU B.5)	
sodium hypochlorite (active chlorine)	Severe damage	Rabbit	OECD 405 (EU B.5)	
sodium hydroxide	Corrosive	Rabbit	Method not given	
3,7-dimethyloctan-3-ol	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
calcium carbonate	No data available			
sodium carbonate	No data available			
alcohols, C12-14, ethoxylated, sulphates, sodium salts	No data available			
sodium hypochlorite (active chlorine)	Irritating to respiratory tract			
sodium hydroxide	No data available			
3,7-dimethyloctan-3-ol	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
calcium carbonate	No data available			
sodium carbonate	Not sensitising		Method not given	
alcohols, C12-14, ethoxylated, sulphates, sodium salts	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
sodium hypochlorite (active chlorine)	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
sodium hydroxide	Not sensitising		Human repeated patch test	
3,7-dimethyloctan-3-ol	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
calcium carbonate	No data available			
sodium carbonate	No data available			
alcohols, C12-14, ethoxylated, sulphates, sodium salts	No data available			
sodium hypochlorite (active chlorine)	Not sensitising			
sodium hydroxide	No data available			
3,7-dimethyloctan-3-ol	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
calcium carbonate	No data available		No data available	
sodium carbonate	No data available		No data available	
alcohols, C12-14, ethoxylated, sulphates, sodium salts	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 476	No evidence for mutagenicity, negative test results	OECD 475 (EU B.11)
sodium hypochlorite (active chlorine)	No evidence for mutagenicity	OECD 471 (EU B.12/13)	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
sodium hydroxide	No evidence for mutagenicity, negative test results	DNA repair test on rat hepatocytes OECD 473	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12) OECD 475 (EU B.11)
3,7-dimethyloctan-3-ol	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
calcium carbonate	No data available
sodium carbonate	No evidence for carcinogenicity, weight-of-evidence
alcohols, C12-14, ethoxylated, sulphates, sodium salts	No evidence for carcinogenicity, weight-of-evidence
sodium hypochlorite (active chlorine)	No evidence for carcinogenicity, negative test results
sodium hydroxide	No evidence for carcinogenicity, weight-of-evidence
3,7-dimethyloctan-3-ol	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported

calcium carbonate			No data available				
sodium carbonate			No data available				
alcohols, C12-14, ethoxylated, sulphates, sodium salts	NOAEL	Developmental toxicity	> 1000	Rat	OECD 414 (EU B.31), oral		No evidence for reproductive toxicity
sodium hypochlorite (active chlorine)	NOAEL	Developmental toxicity Impaired fertility	5 (Cl)	Rat	OECD 414 (EU B.31), oral OECD 415 (EU B.34), oral		No evidence for reproductive toxicity
sodium hydroxide			No data available				No evidence for developmental toxicity No evidence for reproductive toxicity
3,7-dimethyloctan-3-ol			No data available				

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
calcium carbonate		No data available				
sodium carbonate		No data available				
alcohols, C12-14, ethoxylated, sulphates, sodium salts	NOAEL	> 225		OECD 408 (EU B.26)	90	
sodium hypochlorite (active chlorine)	NOAEL	50	Rat	OECD 408 (EU B.26)	90	
sodium hydroxide		No data available				
3,7-dimethyloctan-3-ol		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
calcium carbonate		No data available				
sodium carbonate		No data available				
alcohols, C12-14, ethoxylated, sulphates, sodium salts		No data available				
sodium hypochlorite (active chlorine)		No data available				
sodium hydroxide		No data available				
3,7-dimethyloctan-3-ol		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
calcium carbonate		No data available				
sodium carbonate		No data available				
alcohols, C12-14, ethoxylated, sulphates, sodium salts		No data available				
sodium hypochlorite (active chlorine)		No data available				
sodium hydroxide		No data available				
3,7-dimethyloctan-3-ol		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
calcium carbonate			No data available					
sodium carbonate			No data available					
alcohols, C12-14, ethoxylated, sulphates, sodium salts			No data available					
sodium hypochlorite (active chlorine)			No data available					

sodium hydroxide			No data available					
3,7-dimethyloctan-3-ol			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
calcium carbonate	No data available
sodium carbonate	Not applicable
alcohols, C12-14, ethoxylated, sulphates, sodium salts	No data available
sodium hypochlorite (active chlorine)	Not applicable
sodium hydroxide	No data available
3,7-dimethyloctan-3-ol	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
calcium carbonate	No data available
sodium carbonate	Not applicable
alcohols, C12-14, ethoxylated, sulphates, sodium salts	No data available
sodium hypochlorite (active chlorine)	Not applicable
sodium hydroxide	No data available
3,7-dimethyloctan-3-ol	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)
calcium carbonate		No data available			
sodium carbonate	LC_{50}	300	*Lepomis macrochirus*	Method not given	96
alcohols, C12-14, ethoxylated, sulphates, sodium salts	LC_{50}	7.1	*Fish*	OECD 203 (EU C.1)	96
sodium hypochlorite (active chlorine)	LC_{50}	0.06	*Oncorhynchus mykiss*	Method not given	96
sodium hydroxide	LC_{50}	35	*Various species*	Method not given	96
3,7-dimethyloctan-3-ol		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
calcium carbonate		No data available			
sodium carbonate	EC_{50}	200-227	*Ceriodaphnia dubia*	Method not given	96
alcohols, C12-14, ethoxylated, sulphates, sodium salts	EC_{50}	7.4	*Daphnia magna Straus*	OECD 202 (EU C.2)	48
sodium hypochlorite (active chlorine)	EC_{50}	0.035	*Ceriodaphnia dubia*	OECD 202 (EU C.2)	48
sodium hydroxide	EC_{50}	40.4	*Ceriodaphnia*	Method not given	48

			sp.		
3,7-dimethyloctan-3-ol		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
calcium carbonate		No data available			
sodium carbonate	EC_{50}	> 800	*Selenastrum capricornutum*		72
alcohols, C12-14, ethoxylated, sulphates, sodium salts	EC_{50}	10 - 100	*Pseudokirchneriella subcapitata*	OECD 201 (EU C.3)	72
sodium hypochlorite (active chlorine)	NOEC	0.0021	*Not specified*	Method not given	168
sodium hydroxide	EC_{50}	22	*Photobacterium phosphoreum*	Method not given	0.25
3,7-dimethyloctan-3-ol		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
calcium carbonate		No data available			
sodium carbonate		No data available			
alcohols, C12-14, ethoxylated, sulphates, sodium salts		No data available			
sodium hypochlorite (active chlorine)	EC_{50}	0.026	*Crassostrea virginica*	Method not given	2
sodium hydroxide		No data available			
3,7-dimethyloctan-3-ol		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
calcium carbonate		No data available			
sodium carbonate		No data available			
alcohols, C12-14, ethoxylated, sulphates, sodium salts	EC_{0}	> 100		DIN 38412, Part 27	
sodium hypochlorite (active chlorine)		0.375	*Activated sludge*	Method not given	
sodium hydroxide		No data available			
3,7-dimethyloctan-3-ol		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
calcium carbonate		No data available				
sodium carbonate		No data available				
alcohols, C12-14, ethoxylated, sulphates, sodium salts	NOEC	1 - 10	*Not specified*	OECD 203	45 day(s)	
sodium hypochlorite (active chlorine)	NOEC	0.04	*Menidia pelinsulae*	Method not given	96 hour(s)	
sodium hydroxide		No data available				
3,7-dimethyloctan-3-ol		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
calcium carbonate		No data available				
sodium carbonate		No data available				
alcohols, C12-14, ethoxylated, sulphates, sodium salts	NOEC	0.27	*Daphnia sp.*	OECD 211	21 day(s)	
sodium hypochlorite (active chlorine)	NOEC	0.007	*Crassostrea*	Method not	15 day(s)	

			virginica	given		
sodium hydroxide		No data available				
3,7-dimethyloctan-3-ol		No data available				

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

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
calcium carbonate		No data available				
sodium carbonate		No data available				
alcohols, C12-14, ethoxylated, sulphates, sodium salts		No data available				
sodium hypochlorite (active chlorine)		No data available				
sodium hydroxide		No data available				
3,7-dimethyloctan-3-ol		No data available				

Terrestrial toxicity

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

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

Terrestrial toxicity - birds, if available:

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

Terrestrial toxicity - soil bacteria, if available:

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

Abiotic degradation - other processes, if available:

Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark
sodium carbonate		No data available			
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
calcium carbonate					Not applicable (inorganic substance)
sodium carbonate					Not applicable (inorganic substance)
alcohols, C12-14, ethoxylated, sulphates, sodium salts		CO_2 production	77-79 % in 28 day(s)	OECD 301D	Readily biodegradable
sodium hypochlorite (active chlorine)					Not applicable (inorganic substance)
sodium hydroxide					Not applicable (inorganic substance)
3,7-dimethyloctan-3-ol					Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

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

Degradation in relevant environmental compartments, if available:

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

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
calcium carbonate	No data available			
sodium carbonate	No data available		No bioaccumulation expected	
alcohols, C12-14, ethoxylated, sulphates, sodium salts	0.3	Method not given	No bioaccumulation expected	
sodium hypochlorite (active chlorine)	-3.42	Method not given	No bioaccumulation expected	
sodium hydroxide	No data available		Not relevant, does not bioaccumulate	
3,7-dimethyloctan-3-ol	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
calcium carbonate	No data available				
sodium carbonate	No data available			No bioaccumulation expected	
alcohols, C12-14,	< 3		Method not given	No bioaccumulation expected	

ethoxylated, sulphates, sodium salts					
sodium hypochlorite (active chlorine)	No data available				
sodium hydroxide	No data available				
3,7-dimethyloctan-3-ol	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
calcium carbonate	No data available				
sodium carbonate	No data available				Potential for mobility in soil, soluble in water
alcohols, C12-14, ethoxylated, sulphates, sodium salts	No data available				
sodium hypochlorite (active chlorine)	1.12				High potential for mobility in soil
sodium hydroxide	No data available				Mobile in soil
3,7-dimethyloctan-3-ol	No data available				

12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

12.6 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

12.7 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products: The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

European Waste Catalogue: 20 01 29* - detergents containing dangerous substances.

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 or ID number: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods

14.3 Transport hazard class(es): Non-dangerous goods

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods

14.6 Special precautions for user: Non-dangerous goods

14.7 Maritime transport in bulk according to IMO instruments: Non-dangerous goods

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

anionic surfactants, 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: 41. Mixtures of sodium hypochlorite classified as Aquatic Acute Category 1 [H400] containing less than 5 % active chlorine and not classified under any of the other hazard categories in Part 1 of Annex I

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: MSDS3853 **Version:** 09.0 **Revision:** 2024-08-08

Reason for revision:
Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 1, 2, 3, 6, 7, 8, 9, 11, 12, 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.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.
- EUH031 - Contact with acids liberates toxic gas.

End of Safety Data Sheet