

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Clax Perfect 71A1

Revision: 2025-12-17 Version: 06.1

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

1.1 Product identifier

Trade name: Clax Perfect 71A1

UFI: TM14-80CT-P00W-FU05

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

Product use: Laundry aid .

For professional use only.

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

\mbox{SWED} - Sector-specific worker exposure description : $\mbox{AISE_SWED_PW_1_1} \\ \mbox{AISE_SWED_PW_1_1} \\$

1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, De Corridor 4, 3621ZB Breukelen [Maarssenbroeksedijk 2, 3542DN Utrecht], The Netherlands

Contact details

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: customerservice.uk@solenis.com

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)

For medical or environmental emergency only:

call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not classified as hazardous

2.2 Label elements

Contains 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) (Methylchloroisothiazolinone, Methylisothiazolinone)

Hazard statements:

EUH208 - May produce an allergic reaction.

EUH210 - Safety data sheet available on request.

Further indications on the label:

Contains: preservative.

2.3 Other hazards

No other hazards known.

Reportable explosives precursor - Control of Poisons and Explosives Precursors Regulations 2015

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH	Classification	Notes	Weight
			number			percent
starch	232-679-6	9005-25-8	[2]	Not classified as hazardous		30-50
sodium nitrate	231-554-3	7631-99-4	01-211948822	Oxidising solids, Category 3 (H272)		3-10
			1-41	Acute toxicity - Oral, Category 4 (H302)		
				Eye irritation, Category 2 (H319)		
5-chloro-2-methyl-2H-isothiazol-3-one	220-239-6	55965-84-9	[6]	Acute toxicity - Dermal, Category 2 (H310)		< 0.01
[EC No 247-500-7] and	247-500-7			Acute toxicity - Inhalation, Category 2 (H330)		

2-methyl-2H-isothiazol-3-one [EC No		Acute toxicity - Oral, Category 3 (H301)	
220-239-6] (3:1)		Skin corrosion, Category 1C (H314)	
		EUH071	
		Serious eye damage, Category 1 (H318)	
		Skin sensitisation, Sub-category 1A (H317)	
		Acute aquatic toxicity, Category 1 M=100	
		(H400)	
		Chronic aquatic toxicity, Category 1 M=100	
		(H410)	

Specific concentration limits

5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1):

- Skin sensitisation, Category 1 (H317) >= 0.0015%
- Serious eye damage, Category 1 (H318) >= 0.6% > Eye irritation, Category 2 (H319) >= 0.06%
- Skin corrosion, Category 1C (H314) >= 0.6% > Skin irritation, Category 2 (H315) >= 0.06%

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

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: Rinse cautiously with water for several minutes. If irritation occurs and persists, get medical

attention.

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:No known effects or symptoms in normal use.Skin contact:No known effects or symptoms in normal use.Eye contact:No known effects or symptoms in normal use.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

No special measures required.

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. 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.

Advice on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Do not mix with other products unless advised by Diversey.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits

Air limit values, if available:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
starch	10 mg/m3 total	30 mg/m3 total
	inhalable	inhalable
	4 mg/m3 respirable	12 mg/m3 respirable

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
starch	-	-	-	-
sodium nitrate	-	-	-	12.5
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	-	-	-	-

DNEL/DMEL dermal exposure - Worker

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects (mg/kg bw)	effects	effects (mg/kg bw)
starch	No data available	-	No data available	-
sodium nitrate	No data available	-	No data available	20.8
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and	-	-	-	-
2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)				

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)
starch	No data available	-	No data available	-
sodium nitrate	No data available	-	No data available	12.5
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	-	-	-	-

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

DIVEL/DIVILE IIII alatory exposure - Worker (Ing/III-)	,			
Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
starch	-	-	-	-
sodium nitrate	-	-	-	36.7
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	-	-	-	-

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

DIVEL/DIVILE IIII alatory exposure - Consumer (mg/m/)				
Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
starch	-	-	-	-
sodium nitrate	-	-	=	10.9

5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and	-	-	-	-
2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)				

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)
starch		-	-	-
sodium nitrate	0.45	0.045	4.5	18
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	-	-	-	-

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
starch	-	-	-	-
sodium nitrate	-	-	-	-
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	-	-	-	-

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
Automatic application in a dedicated closed system	AISE_SWED_PW_1_1	PW	PROC 1	60	ERC8a

Personal protective equipment

Eye / face protection: Safety glasses are not normally required. However, their use is recommended in those cases where

splashes may occur when handling the product (EN 16321).

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.

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

Recommended safety measures for handling the <u>diluted</u> product:

Recommended maximum concentration (% w/w): 0.7

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

Personal protective equipment

Eye / face protection:No special requirements under normal use conditions.Hand protection:No special requirements under normal use conditions.Body protection:No special requirements under normal use conditions.Respiratory protection:No special requirements under normal use conditions.

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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

Method / remark

Physical state: Liquid

Colour: Milky , Pale , from Blue to Grey

Odour: Odourless

Odour threshold: Not applicable

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

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

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
starch	No data available		
sodium nitrate	No data available		
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available		

Method / remark

Flammability (solid, gas): Not applicable to liquids

Flammability (liquid): Not flammable. Flash point (°C): Not applicable. Sustained combustion: Not applicable. (UN Manual of Tests and Criteria, section 32, L.2)

Lower and upper explosion limit/flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Method / remark

Autoignition temperature: Not determined

Decomposition temperature: Not applicable.

pH: ≈ 8 (neat) ISO 4316

Kinematic viscosity: ≈ 700 mPa.s (20 °C) Solubility in / Miscibility with water: Fully miscible DM-006 Viscosity - Standard

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
starch	No data available		
sodium nitrate	874		
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-5 2-methyl-2H-isothiazol-3-one [EC No 220-239-6			

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

Vapour pressure: Not determined

Method / remark See substance data

Method / remark

OECD 109 (EU A.3)

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
starch	No data available		(0)
sodium nitrate	No data available		
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	2.2	Weight of Evidence	25

Relative density: ≈ 1.15 (20 °C) Relative vapour density: No data available.

Particle characteristics: No data available.

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: 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

None known under normal use conditions.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Mixture data: .

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000

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

Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Oral (mg/kg)
starch		No data available				Not established
sodium nitrate	LD 50	3430	Rat	OECD 401 (EU B.1)		12000
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	LD 50	64	Rat	Method not given		64

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Dermal (mg/kg)
starch		No data available				Not established
sodium nitrate	LD 50	> 5000	Rat	Method not given		Not established
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	LD 50	87.12	Rabbit	Method not given		87.12

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
starch		No data available			
sodium nitrate		No data available			
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	LC 50	0.33	Rat		

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)
starch	Not established	Not established	Not established	Not established
sodium nitrate	Not established	Not established	Not established	Not established
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	Not established	0.33	Not established	Not established

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
starch	No data available			

sodium nitrate	Not irritant	Method not given	
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	Corrosive	Method not given	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
starch	No data available			
sodium nitrate	Irritant		Method not given	
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	Severe damage		Method not given	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
starch	No data available			
sodium nitrate	No data available			
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No data available			

Sensitisation

Ingredient(s)	Result	Species	Method	Exposure time (h)
starch	No data available			
sodium nitrate	Not sensitising			
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	Sensitising	Guinea pig	Method not given OECD 406 (EU B.6) / GPMT	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
starch	No data available			
sodium nitrate	Not sensitising			
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	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)
starch	No data available		No data available	
	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 473		
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	No evidence for mutagenicity	Method not given	No data available	

Carcinogenicity

 Ingredient(s)	Effect
starch	No data available
sodium nitrate	No evidence for carcinogenicity, negative test results
vl-2H-isothiazol-3-one [EC No 247-500-7] and isothiazol-3-one [EC No 220-239-6] (3:1)	No evidence for carcinogenicity, negative test results

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
starch			No data				
			available				
sodium nitrate	NOAEL		1500	Rat	OECD 422,		
					oral		
5-chloro-2-methyl-2H-is			No data				No evidence for reproductive
othiazol-3-one [EC No			available				toxicity No evidence for
247-500-7] and							teratogenic effects
2-methyl-2H-isothiazol-							
3-one [EC No							
220-239-6] (3:1)							

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
starch		No data				

	availa	able		
sodium nitrate	No d	ata		
	availa	able		
5-chloro-2-methyl-2H-isothiazol-3-one [EC No	No d	ata		
247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No	availa	able		
220-239-6] (3:1)				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
starch		No data				
		available				
sodium nitrate		No data				
		available				
5-chloro-2-methyl-2H-isothiazol-3-one [EC No		No data				
247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
starch		No data available				
sodium nitrate		No data available				
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		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
starch			No data available					
sodium nitrate			No data available					
5-chloro-2-methyl-2H-is othiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC No 220-239-6] (3:1)			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
starch	No data available
sodium nitrate	No data available
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and	No data available
2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	

STOT-repeated exposure

	Ingredient(s)	Affected organ(s)
Ī	starch	No data available
ſ	sodium nitrate	No data available
Ī	5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and	No data available
	2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	

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, it available.							
Ingredient(s)	Effect						
starch	No data available						
sodium nitrate	No data available						
	No data available						
2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)							

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)
starch		No data available			
sodium nitrate	LC 50	7950		OECD 203, static	96
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	LC 50	0.28	Lepomis macrochirus	OECD 203 (EU C.1)	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
starch		No data available			
sodium nitrate	EC 50	8609	Daphnia magna Straus	OECD 202, static	24
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	EC 50	0.126	Daphnia magna Straus	OECD 202 (EU C.2)	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
starch		No data available			
sodium nitrate	EC 50	1700		Weight of evidence	10 days
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	EC 50	0.003	Pseudokirchner iella subcapitata	OECD 201 (EU C.3)	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
starch		No data			
		available			
sodium nitrate		No data			
		available			
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and		No data			
2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
starch		No data available			
sodium nitrate	EC 50	180	Bacteria Activated sludge	OECD 209	3 hour(s)
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	EC 20	0.97	Activated sludge	OECD 209	3 hour(s)

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

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
• ` ` ` `		(mg/l)	·		time	
starch		No data				
		available				
sodium nitrate		No data				
		available				
5-chloro-2-methyl-2H-isothiazol-3-one [EC No		No data				
247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No		available				
220-239-6] (3:1)					[

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
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	(mg/l)		time	
starch	No data			
	available			
sodium nitrate	No data			
	available			
5-chloro-2-methyl-2H-isothiazol-3-one [EC No	No data			
247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	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
starch		No data available				
sodium nitrate		No data available				
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

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

Terrestrial toxicity - soil invertebrates, including earthworms, if available:							
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed	
• • • • • • • • • • • • • • • • • • • •	•	(mg/kg dw	•		time (days)		
		soil)			(, -,		
5-chloro-2-methyl-2H-isothiazol-3-one [EC No		No data					
247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No		available					
220-239-6] (3:1)							

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		No data available				

Terrestrial toxicity - soil bacteria, if available:

rerrestriai toxicity - soli bacteria, if avallable:						
Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		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
5-chloro-2-methyl-2H-isothiazol-3-one [EC No	No data available			
247-500-7] and 2-methyl-2H-isothiazol-3-one				
[EC No 220-239-6] (3:1)				

Abiotic degradation - hydrolysis, if available:

tbiolic degradation Trydrolysis, il available.				
Ingredient(s)	Half-life time in fresh	Method	Evaluation	Remark
	water			
5-chloro-2-methyl-2H-isothiazol-3-one [EC No	No data available			
247-500-7] and 2-methyl-2H-isothiazol-3-one				
[EC No 220-239-6] (3:1)				

Abiotic degradation - other processes, if available:

Ingredient(s)	Туре	Half-life time	Method	Evaluation	Remark
5-chloro-2-methyl-2H-is		No data available			
othiazol-3-one [EC No					
247-500-7] and					
2-methyl-2H-isothiazol-					
3-one [EC No					Į.
220-239-6] (3:1)					

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
starch				Weight of evidence	Readily biodegradable
sodium nitrate					Not applicable (inorganic substance)
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)		Oxygen depletion	> 60%	OECD 301D	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation
5-chloro-2-methyl-2H-isothiazol-3-one [EC No					No data available
247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)					

Degradation in relevant environmental compartments, if available:

Degradation in relevant environmental compartments, in	avaliable.				
Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)					No data available

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
starch	No data available			
sodium nitrate	No data available			
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	-0.71 - +0.75	Method not given	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredie	ent(s)	Value	Species	Method	Evaluation	Remark
starc	:h	No data available				
sodium r	nitrate	No data available				
5-chloro-2-me othiazol-3-on 247-500- 2-methyl-2H- 3-one [E 220-239-6	ne [EC No 7] and isothiazol- C No					

12.4 Mobility in soilAdsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
starch	No data available				
sodium nitrate	No data available				
5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)	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 enects, il available.			
Ingredient(s)		Effect		
	starch	No data available		
	sodium nitrate	No data available		
	5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and	No data available		

2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1)

12.7 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused 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 products:

material is suitable for energy recovery or recycling in line with local legislation.

European Waste Catalogue: 16 03 06 - organic wastes other than those mentioned in 16 03 05.

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
- Control of Poisons and Explosives Precursors Regulations 2015

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

Ingredients according to Detergents Regulation

Methylchloroisothiazolinone, Methylisothiazolinone

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: MSDS1669 Version: 06.1 Revision: 2025-12-17

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, 3, 6, 7, 8, 9, 11, 12, 15, 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 Letnal Concentration, 50% / Median Letnal 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

 H272 May intensify fire; oxidiser.

 H301 Toxic if swallowed.

- H302 Harmful if swallowed.
- H310 Fatal in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
 H330 Fatal if inhaled.
 H400 Very toxic to aquatic life.

- +H410 Very toxic to aquatic life with long lasting effects.
 + EUH071 Corrosive to the respiratory tract.
- H318 Causes serious eye damage.

End of Safety Data Sheet