

Safety Data Sheet According to Regulation (EC) No 1907/2006

Titan Chlor Plus Tablets

Version: 02.1

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

1.1 Product identifier

Revision: 2015-08-09

Trade name: Titan Chlor Plus Tablets

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

Identified uses: For professional use only. AISE-P301 - General purpose cleaner. Manual process AISE-P302 - General purpose cleaner. Spray and wipe manual process AISE-P314 - Surface disinfectant. Manual process AISE-P315 - Surface disinfectant. Spray and rinse manual process Uses advised against: Uses other than those identified are not recommended

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: MSDSinfoUK@sealedair.com

1.4 Emergency telephone number

For medical or environmental emergency only: call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled in accordance with Regulation (EC) No 1272/2008.

EUH031 Acute Tox. 4 (H332) STOT SE 3 (H335) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

Classification in accordance with Directive 1999/45/EC and corresponding national legislation Indication of danger

Xn - Harmful N - Dangerous for the environment

Risk phrases:

R22 - Harmful if swallowed. R31 - Contact with acids liberates toxic gas. R36/37 - Irritating to eyes and respiratory system. R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements







Contains troclosene sodium (Troclosene Sodium), sodium N-lauroyl sarcosinate (Sodium Lauroyl Sarcosinate).

Hazard statements:

EUH031 - Contact with acids liberates toxic gas. H332 - Harmful if inhaled. H335 - May cause respiratory irritation. H319 - Causes serious eye irritation. H410 - Very toxic to aquatic life with long lasting effects.

2.3 Other hazards

No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Classification (1999/45/EC)	Notes	Weight percent
troclosene sodium	220-767-7	2893-78-9	No data available	Ox. Sol. 2 (H272) EUH031 Acute Tox. 4 (H302) STOT SE 3 (H335) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	E;R2 O;R8 Xn;R22 R31 Xi;R36/37 N;R50/53		50-75
adipic acid	204-673-3	124-04-9	No data available	Eye Irrit. 2 (H319)	Xi;R36		10-20
sodium toluenesulphonate	235-088-1	12068-03-0	No data available	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	Xi;R36/37/38		3-10
sodium N-lauroyl sarcosinate	205-281-5	137-16-6	01-2119527780-39	Acute Tox. 2 (H330) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	T;R23 Xi;R38-41		1-3

* Polymer.

Workplace exposure limit(s), if available, are listed in subsection 8.1. [1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

For the full text of the R, 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:	Symptoms of intoxication may even occur after several hours. It is recommended to continue
	medical observation for at least 48 hours after the incident. If breathing is irregular or stopped,
	administer artificial respiration.
Inhalation	Get medical attention or advice if you feel unwell.
Skin contact:	Wash skin with plenty of lukewarm, gently flowing water. If skin irritation or rash occurs: Get medical advice or attention.
Eye contact:	Immediately rinse eyes cautiously with lukewarm water for several minutes. Remove contact lenses,
	if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.
Ingestion:	Rinse mouth. Immediately drink 1 glass of water. 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	d effects, both acute and delayed
Inhalation:	May cause respiratory irritation. May cause bronchospasm in chlorine sensitive individuals.
Skin contact:	No known effects or symptoms in normal use.

Eye contact: Causes severe irritation. No known effects or symptoms in normal use. Ingestion:

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

Flood with water.

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

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

Collect mechanically.

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: Keep away from heat.

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 Sealed Air. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Use personal protective equipment as required. Use only with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

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

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 oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
troclosene sodium	No data available	No data available	No data available	No data available
adipic acid	No data available	No data available	No data available	No data available
sodium toluenesulphonate	No data available	No data available	No data available	No data available
sodium N-lauroyl sarcosinate	No data available	No data available	No data available	No data available

DNEL 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)
troclosene sodium	No data available	No data available	No data available	No data available
adipic acid	No data available	No data available	No data available	No data available
sodium toluenesulphonate	No data available	No data available	No data available	No data available
sodium N-lauroyl sarcosinate	No data available	No data available	No data available	No data available

DNEL dermal exposure - Consumer				
Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic

SAFETY DATA SHEET

Titan Chlor Plus Tablets

	effects	effects (mg/kg bw)	effects	effects (mg/kg bw)
troclosene sodium	No data available	No data available	No data available	No data available
adipic acid	No data available	No data available	No data available	No data available
sodium toluenesulphonate	No data available	No data available	No data available	No data available
sodium N-lauroyl sarcosinate	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
troclosene sodium	No data available	No data available	No data available	No data available
adipic acid	No data available	No data available	No data available	No data available
sodium toluenesulphonate	No data available	No data available	No data available	No data available
sodium N-lauroyl sarcosinate	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
troclosene sodium	No data available	No data available	No data available	No data available
adipic acid	No data available	No data available	No data available	No data available
sodium toluenesulphonate	No data available	No data available	No data available	No data available
sodium N-lauroyl sarcosinate	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)
troclosene sodium	No data available	No data available	No data available	No data available
adipic acid	No data available	No data available	No data available	No data available
sodium toluenesulphonate	No data available	No data available	No data available	No data available
sodium N-lauroyl sarcosinate	No data available	No data available	No data available	No data available

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater	Sediment, marine	Soil (mg/kg)	Air (mg/m ³)
	(mg/kg)	(mg/kg)		
troclosene sodium	No data available	No data available	No data available	No data available
adipic acid	No data available	No data available	No data available	No data available
sodium toluenesulphonate	No data available	No data available	No data available	No data available
sodium N-lauroyl sarcosinate	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. 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: Covering activities such as filling and transfer of product to application equipment, flasks or buckets

Appropriate engineering controls: Appropriate organisational controls:	No special requirements under normal use conditions. Avoid direct contact and/or splashes where possible. Train personnel.
Personal protective equipment Eye / face protection: Hand protection: Body protection: Respiratory protection:	No special requirements under normal use conditions. Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary. No special requirements under normal use conditions. No special requirements under normal use conditions.
Environmental exposure controls:	Should not reach sewage water or drainage ditch undiluted.
Recommended safety measures for hand	lling the <u>diluted</u> product:
Recommended maximum concentratio	n (%): 0.325
Appropriate engineering controls: Appropriate organisational controls:	No special requirements under normal use conditions. No special requirements under normal use conditions.
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.
Hand protection: Body protection: Respiratory protection:	Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary. No special requirements under normal use conditions. 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

Physical State: Solid Colour: White Odour: Chlorine Odour threshold: Not applicable pH: Dilution pH: ≈ 5 (1%) Melting point/freezing point (°C): Not determined Initial boiling point and boiling range (°C): Not determined

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
troclosene sodium	No data available		
adipic acid	No data available		
sodium toluenesulphonate	No data available		
sodium N-lauroyl sarcosinate	No data available		

Flash point (°C): Not applicable. Sustained combustion: Not applicable. Evaporation rate: Not determined Flammability (solid, gas): Not determined Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Vapour pressure: Not determined

Method / remark

Method / remark

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
troclosene sodium	No data available		
adipic acid	No data available		
sodium toluenesulphonate	No data available		
sodium N-lauroyl sarcosinate	No data available		

Method / remark

Vapour density: Not determined Relative density: Not determined Solubility in / Miscibility with Water: Soluble

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
troclosene sodium	No data available		
adipic acid	No data available		
sodium toluenesulphonate	No data available		
sodium N-lauroyl sarcosinate	No data available		

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

Autoignition temperature: Not determined Decomposition temperature: Not applicable. Viscosity: Not determined Explosive properties: Not explosive. Oxidising properties: After prolonged exposure above 40 °C the product could decompose and release excessive heat

9.2 Other information

Surface tension (N/m): Not determined Corrosion to metals: Not applicable to solids or gases

Substance data, dissociation constant, if available:

SECTION 10: Stability and reactivity

Method / remark

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

Keep container in a well-ventilated place. Keep in a cool place. Keep at temperature not exceeding 40 °C. After prolonged exposure above 40 °C the product could decompose and release excessive heat. Store under dry conditions. Keep away from heat and direct sunlight.

10.5 Incompatible materials

Reacts with acids releasing toxic chlorine gas. Keep away from acids.

10.6 Hazardous decomposition products

Chlorine.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture data:

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000 ATE - Inhalatory, mists (mg/l): 3.5

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

Acute toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
troclosene sodium	LD 50	1436	Mouse	Method not given	
adipic acid		No data available			
sodium toluenesulphonate		No data available			
sodium N-lauroyl sarcosinate	LD 50	> 5000	Rat	OECD 401 (EU B.1)	-

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
troclosene sodium		No data available			
adipic acid		No data available			
sodium toluenesulphonate		No data available			
sodium N-lauroyl sarcosinate		No data available			-

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
troclosene sodium		No data available			
adipic acid		No data available			
sodium toluenesulphonate		No data available			
sodium N-lauroyl sarcosinate	LC 50	0.05 - 0.5 (dust)	Rat	OECD 403 (EU B.2)	4

Irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
troclosene sodium	No data available			
adipic acid	No data available			
sodium toluenesulphonate	No data available			
sodium N-lauroyl sarcosinate	Not irritant	Rabbit	OECD 404 (EU B.4)	4 hour(s)

Ingredient(s)	Result	Species	Method	Exposure time
troclosene sodium	No data available			
adipic acid	No data available			
sodium toluenesulphonate	No data available			
sodium N-lauroyl sarcosinate	Severe damage	Rabbit	OECD 405 (EU B.5)	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
troclosene sodium	No data available			
adipic acid	No data available			
sodium toluenesulphonate	No data available			
sodium N-lauroyl sarcosinate	No data available			

Sensitisation sitisation by skin contact

Sensitisation by skill contact				
Ingredient(s)	Result	Species	Method	Exposure time (h)
troclosene sodium	No data available			
adipic acid	No data available			
sodium toluenesulphonate	No data available			
sodium N-lauroyl sarcosinate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	-

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
troclosene sodium	No data available			
adipic acid	No data available			
sodium toluenesulphonate	No data available			
sodium N-lauroyl sarcosinate	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)
troclosene sodium	No data available		No data available	
adipic acid	No data available		No data available	
sodium toluenesulphonate	No data available		No data available	
sodium N-lauroyl sarcosinate	No evidence for mutagenicity, negative test results	OECD 473	No data available	

Carcinogenicity

Ingredient(s)	Effect
troclosene sodium	No data available
adipic acid	No data available
sodium toluenesulphonate	No data available
sodium N-lauroyl sarcosinate	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
troclosene sodium			No data available				
adipic acid			No data available				
sodium toluenesulphonate			No data available				
sodium N-lauroyl sarcosinate			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
troclosene sodium		No data available				
adipic acid		No data available				
sodium toluenesulphonate		No data available				
sodium N-lauroyl sarcosinate	NOAEL	30	Rat	OECD 407 (EU B.7)	90	

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
troclosene sodium		No data				
		available				
adipic acid		Rage ta 7 / 1	2			

	available			
sodium toluenesulphonate	No data available			
sodium N-lauroyl sarcosinate	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
troclosene sodium		No data available				
adipic acid		No data available				
sodium toluenesulphonate		No data available				
sodium N-lauroyl sarcosinate		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
troclosene sodium			No data available					
adipic acid			No data available					
sodium toluenesulphonate			No data available					
sodium N-lauroyl sarcosinate			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
troclosene sodium	No data available
adipic acid	No data available
sodium toluenesulphonate	No data available
sodium N-lauroyl sarcosinate	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
troclosene sodium	No data available
adipic acid	No data available
sodium toluenesulphonate	No data available
sodium N-lauroyl sarcosinate	No data available

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

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

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
troclosene sodium		No data available			
adipic acid		No data available			
sodium toluenesulphonate		No data available			
sodium N-lauroyl sarcosinate	LC 50	107	Brachydanio rerio	OECD 203	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
troclosene sodium		No data available			
adipic acid		No data available			
sodium toluenesulphonate	ge 8/12	No data			

		available			
sodium N-lauroyl sarcosinate	EC 50	29.7	Daphnia magna Straus	OECD 202	48

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
troclosene sodium		No data available			
adipic acid		No data available			
sodium toluenesulphonate		No data available			
sodium N-lauroyl sarcosinate	E b C 50	39	Desmodesmus subspicatus	OECD 201	72

Aquatic short-term toxicity - marine species Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
troclosene sodium		No data available			
adipic acid		No data available			
sodium toluenesulphonate		No data available			
sodium N-lauroyl sarcosinate		No data available			-

Impact on sewage plants - toxicity to bacteria					
Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
troclosene sodium		No data available			
adipic acid		No data available			
sodium toluenesulphonate		No data available			
sodium N-lauroyl sarcosinate		No data available			

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

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
troclosene sodium		No data available				
adipic acid		No data available				
sodium toluenesulphonate		No data available				
sodium N-lauroyl sarcosinate		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
troclosene sodium		No data available				
adipic acid		No data available				
sodium toluenesulphonate		No data available				
sodium N-lauroyl sarcosinate		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
troclosene sodium		No data available				
adipic acid		No data available				
sodium toluenesulphonate		No data available				
sodium N-lauroyl sarcosinate		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			time (days)		
			_soil)	•				
Page 9712								

sodium N-laurovI sarcosinate	No data		-	
	available			
	available			

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium N-lauroyl sarcosinate		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
sodium N-lauroyl sarcosinate		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 N-lauroyl sarcosinate		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 N-lauroyl sarcosinate		No data available			-	

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
troclosene sodium					No data available
adipic acid					No data available
sodium toluenesulphonate					No data available
sodium N-lauroyl sarcosinate			90.9 % in 2 day(s)	OECD 301E	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)							
Ingredient(s)	Value	Method	Evaluation	Remark			
troclosene sodium	No data available						
adipic acid	No data available						
sodium toluenesulphonate	No data available						
sodium N-lauroyl sarcosinate	No data available		No bioaccumulation expected				

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
troclosene sodium	No data available				
adipic acid	No data available				
sodium toluenesulphonate	No data available				
sodium N-lauroyl sarcosinate	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
troclosene sodium	No data available				
adipic acid	No data available	2000 10 / 12			

sodium toluenesulphonate	No data available		
sodium N-lauroyl sarcosinate	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 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods Waste from residues / unused products:

European Waste Catalogue:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation. 20 01 29* - detergents containing dangerous substances.

Empty packaging Recommendation:

Dispose of observing national or local regulations.

SECTION 14: Transport information



ADR, RID, ADN, IMO/IMDG, ICAO/IATA

14.1 UN number: 3077

14.2 UN proper shipping name:

Environmentally hazardous substance, solid, n.o.s. (sodium dichloroisocyanurate anhydrous)

- 14.3 Transport hazard class(es):
 - Class: 9
 - Label(s): 9
- 14.4 Packing group: III
- 14.5 Environmental hazards: Environmentally hazardous: Yes Marine pollutant: Yes
- 14.6 Special precautions for user:

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: The product is not transported in bulk tankers.

Other relevant information: ADR Classification code: M7 Tunnel restriction code: E Hazard identification number: 90 IMO/IMDG EmS: F-A, S-F

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 dangerous goods packed in small quantities classified under UN3077 or UN3082.

SECTION 15: Regulatory information

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

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

Ingredients according to EC Detergents Regulation 648/2004 anionic surfactants, phosphates disinfectants

15.2 Chemical safety assessment

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

SECTION 16: Other information

< 5%

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: MS1000293

Version: 02.1

Revision: 2015-08-09

Reason for revision:

Overall design adjusted in accordance with Amendment 453/2010, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 3

Classification procedure

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

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

- H272 May intensify fire; oxidiser.
- H302 Harmful if swallowed.
- · H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
 H330 Fatal if inhaled.
- H335 May cause respiratory irritation. • H400 - Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- · EUH031 Contact with acids liberates toxic gas.
- R 2 Risk of explosion by shock, friction, fire or other sources of ignition.
- R 8 Contact with combustible material may cause fire.
- R22 Harmful if swallowed.R23 Toxic by inhalation.
- R31 Contact with acids liberates toxic gas.
- R36 Irritating to eyes.
- · R37 Irritating to respiratory system. • R38 - Irritating to skin.
- · R41 Risk of serious damage to eyes.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Abbreviations and acronyms:

- AISE The international Association for Soaps, Detergents and Maintenance Products
 DNEL Derived No Effect Limit
- · EUH CLP Specific hazard statement
- · PBT Persistent, Bioaccumulative and Toxic
- PNEC Predicted No Effect Concentration
- · REACH number REACH registration number, without supplier specific part
- · vPvB very Persistent and very Bioaccumulative
- ATE Acute Toxicity Estimate

End of Safety Data Sheet