Safety Data Sheet

According to Regulation (EC) No 1907/2006

Hagerty Silver Clean

Revision: 2015-06-03

Version: 02.0

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

1.1 Product identifier

Trade name: Hagerty Silver Clean

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

AISE-C7 [3] - Surface cleaners (liquid, powder, gel neat, spray neat) for consumer use **Uses advised against:** Uses other than those identified are not recommended

1.3 Details of the supplier of the safety data sheet Hagerty SA

Contact details Promenade-Noire 1, CH-2000 Neuchâtel, Switserland Tel +41 32 724 44 64 www.hagertycare.com

1.4 Emergency telephone number 24 hour medical emergency telephone number: + 41 44 251 51 51 Swiss Toxicological Information Centre, Zurich

This International SDS is for information only. It does not meet all applicable regulatory requirements and does not replace the relevant statutory data sheet for your country.

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.

Carc. 2 (H351) Repr. 2 (H361) Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)

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

Xn - Harmful

Risk phrases:

R40 - Limited evidence of a carcinogenic effect.
 R63 - Possible risk of harm to the unborn child.
 R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements



Signal word: Warning.

Contains thiourea (Thiourea).

Hazard statements:

- H351 Suspected of causing cancer.
- H361 Suspected of damaging fertility or the unborn child.
- H319 Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements:

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

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

P405 - Store locked up.

P501 - Dispose of unused content as chemical waste.

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
thiourea	200-543-5	62-56-6	No data available	Carc. 2 (H351) Repr. 2 (H361) Acute Tox. 4 (H302) Aquatic Chronic 2 (H411)	Xn;R22 Carc.Cat.3;R40 N;R51/53 Repr.Cat.3;R63		3-10
citric acid	201-069-1	77-92-9	[1]	Eye Irrit. 2 (H319)	Xi;R36		1-3
alkyl alcohol ethoxylate	Polymer*	64425-86-1	[4]	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Acute 1 (H400)	Xn;R22 Xi;R41 N;R50		1-3
phosphoric acid	231-633-2	7664-38-2	01-2119485924-24	Skin Corr. 1B (H314) Met. Corr. 1 (H290)	C;R34		1-3
4,5-dihydro-2-heptadecyl-1H-im idazole-1-ethylamine	221-133-2	3010-23-9	No data available	Skin Corr. 1B (H314) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	C;R34 N;R50/53		0.1-1

* Polymer.

For the full text of the R, H and EUH phrases mentioned in this Section, see Section 16.

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.

SECTION 4: First aid measures

4.1 Description of first aid measures	
General Information:	IF exposed or concerned: Get medical attention or advice.
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:	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:	Immediately drink 1 glass of water. 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 effe	ects, both acute and delayed
Inhalation:	Suspected of causing cancer. Suspected of damaging fertility or the unborn child.

Inhalation:	Suspected of causing cancer. Suspected of damaging fertility or the unborn child.
Skin contact:	Suspected of causing cancer. Suspected of damaging fertility or the unborn child.
Eye contact:	Causes severe irritation.
Ingestion:	Suspected of causing cancer. Suspected of damaging fertility or the unborn child.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing, gloves and eye/face protection.

6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Dilute with plenty of water. 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

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire and explosions:

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Do not mix with other products. 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. Store used personal protective equipment separately. Use personal protective equipment as required. Obtain special instructions before use. Use only with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Keep locked up and out of the reach of children. 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.

Ingredient(s)	EU - Long term	EU - Short term	UK - Long term	UK - Short term
	value(s)	value(s)	value(s)	value(s)
phosphoric acid	1 mg/m ³	2 mg/m ³	1 mg/m ³	2 mg/m ³

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

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
thiourea	No data available	No data available	No data available	No data available
citric acid	-	-	-	-
alkyl alcohol ethoxylate	No data available	No data available	No data available	No data available
phosphoric acid	-	-	-	-
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	No data available	No data available	No data available	No data available

DNEL 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)
thiourea	No data available	No data available	No data available	No data available
citric acid	No data available	-	No data available	-
alkyl alcohol ethoxylate	No data available	No data available	No data available	No data available
phosphoric acid	No data available	-	No data available	-
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	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
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	effects	effects (mg/kg bw)	effects	effects (mg/kg bw)
thiourea	No data available	No data available	No data available	No data available
citric acid	No data available	-	No data available	-
alkyl alcohol ethoxylate	No data available	No data available	No data available	No data available
phosphoric acid	No data available	-	No data available	-
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	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
thiourea	No data available	No data available	No data available	No data available
citric acid	-	-	-	-
alkyl alcohol ethoxylate	No data available	No data available	No data available	No data available
phosphoric acid	-	-	2.92	-
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	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
thiourea	No data available	No data available	No data available	No data available
citric acid	-	-	-	-
alkyl alcohol ethoxylate	No data available	No data available	No data available	No data available
phosphoric acid	-	-	0.73	-
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	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)
thiourea	No data available	No data available	No data available	No data available
citric acid	0.44	0.044	-	> 1000
alkyl alcohol ethoxylate	No data available	No data available	No data available	No data available
phosphoric acid	-	-	-	-
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	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)
thiourea	No data available	No data available	No data available	No data available
citric acid	34.6	3.46	33.1	-
alkyl alcohol ethoxylate	No data available	No data available	No data available	No data available
phosphoric acid		-	-	
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	No data available	No data available	No data available	No data available
4,5-uinyuro-2-neptadecyi-1H-Imidazole-1-etnylamine	ino dala avallable	ino dala avallable	ino dala avallable	INO GALA AVAIIADIE

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:

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:	Safety glasses or goggles (EN 166).
Hand protection:	Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier.
	Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.
	Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: >= 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:	Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur.

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: Clear, Blue Odour: Slightly perfumed Odour threshold: Not applicable pH: < 2 (neat) 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)
thiourea	No data available		
citric acid	No data available		
alkyl alcohol ethoxylate	No data available		
phosphoric acid	158	Method not given	1013
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	No data available		

Method / remark

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

Substance data, flammability or explosive limits, if available:

Method / remark

Substance data, vapour pressure

Vapour pressure: Not determined

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
thiourea	No data available		
citric acid	No data available		
alkyl alcohol ethoxylate	No data available		
phosphoric acid	4	Method not given	20
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	No data available		

Method / remark

Relative density: 1.04 g/cm³ (20 °C) Solubility in / Miscibility with Water: Fully miscible

Substance data, solubility in water

Vapour density: Not determined

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
thiourea	Soluble		
citric acid	1630	Method not given	
alkyl alcohol ethoxylate	No data available		
phosphoric acid	Soluble		
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	No data available		

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

Autoignition temperature: Not determined Decomposition temperature: Not determined Viscosity: Not determined Explosive properties: Not explosive. Oxidising properties: Not oxidising

9.2 Other information Surface tension (N/m): Not determined Corrosion to metals: Not corrosive

Method / remark

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Substance data, dissociation constant, if 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 alkali. Keep away from products containing chlorine-based bleaching agents or sulphites.

10.6 Hazardous decomposition products

None known under normal storage and use conditions. Sulphur dioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture data:

Relevant calculated ATE(s): ATE - Oral (mg/kg): >2000

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

Acute toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
thiourea	LD 50	1750	Rat	Method not given	
citric acid	LD 50	3000	Rat	Method not given	
alkyl alcohol ethoxylate		No data available			
phosphoric acid	LD 50	2600	Rat	OECD 423 (EU B.1 tris)	-
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	LD 50	> 2000	Rat	OECD 401 (EU B.1) Read across	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
thiourea	LD 50	2800	Rat	Method not given	
citric acid	LD 50	> 2000	Rat	Method not given	
alkyl alcohol ethoxylate		No data available			
phosphoric acid	LD 50	2740	Rabbit	Method not given	-
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
thiourea		No data available			
citric acid		No data available			
alkyl alcohol ethoxylate		No data available			
phosphoric acid	LC 50	850	Rat	Method not given	2
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine		No data available			

Irritation and corrosivity Skin irritation and corrosivity

Ingredient(s) Result Species Method Exposure time

thiourea	No data available			
citric acid	Not irritant	Rabbit	OECD 404 (EU B.4)	
alkyl alcohol ethoxylate	No data available			
phosphoric acid	Corrosive	Rabbit	OECD 404 (EU B.4)	
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	Irritant	Rabbit	Method not given	48 hour(s)

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
thiourea	No data available			
citric acid	Severe damage	Rabbit	OECD 405 (EU B.5)	
alkyl alcohol ethoxylate	No data available			
phosphoric acid	Severe damage	Rabbit	Method not given	
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	Severe damage	Rabbit	OECD 405 (EU B.5)	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
thiourea	No data available			
citric acid	No data available			
alkyl alcohol ethoxylate	No data available			
phosphoric acid	No data available			
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	No data available			

Sensitisation

Ingredient(s)	Result	Species	Method	Exposure time (h)
thiourea	No data available			
citric acid	Not sensitising	Guinea pig	Method not given	
alkyl alcohol ethoxylate	No data available			
phosphoric acid	Not sensitising	Human	Human experience	-
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
thiourea	No data available			
citric acid	No data available			
alkyl alcohol ethoxylate	No data available			
phosphoric acid	No data available			-
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
thiourea	No data available		No data available	
citric acid	No data available		No evidence of genotoxicity, negative test results	Method not given
alkyl alcohol ethoxylate	No data available		No data available	
		OECD 471 (EU B.12/13) OECD 473 OECD 476 (Mouse lymphoma)		
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethyla mine	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
thiourea	Limited evidence of a carcinogenic effect.
citric acid	No evidence for carcinogenicity, negative test results
alkyl alcohol ethoxylate	No data available
phosphoric acid	No data available
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	No data available

Toxicity for reproduction Exposure Endpoint Specific effect Value Species Method Remarks and other effects Ingredient(s) (mg/kg bw/d) time reported thiourea Teratogenic effects No data Indications of possible available teratogenicity citric acid No data No evidence for reproductive available toxicity alkyl alcohol ethoxylate No data available phosphoric acid NOAEL Developmental toxicity 410 Rat OECD 422, 10 day(s) No evidence for reproductive toxicity No evidence for oral Page 7/13 developmental toxicity

4,5-dihydro-2-heptadec		No data		
yl-1H-imidazole-1-ethyl		available		
amine				

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
thiourea		No data available				
citric acid		No data available				
alkyl alcohol ethoxylate		No data available				
phosphoric acid	NOAEL	250	Rat	OECD 422, oral	-	
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine		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
thiourea		No data available				
citric acid		No data available				
alkyl alcohol ethoxylate		No data available				
phosphoric acid		No data available			-	
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine		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
thiourea		No data available				
citric acid		No data available				
alkyl alcohol ethoxylate		No data available				
phosphoric acid		No data available			-	
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine		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
thiourea			No data available					
citric acid			No data available					
alkyl alcohol ethoxylate			No data available					
phosphoric acid			No data available					
4,5-dihydro-2-heptadec yl-1H-imidazole-1-ethyl amine			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
thiourea	No data available
citric acid	No data available
alkyl alcohol ethoxylate	No data available
phosphoric acid	No data available
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
thiourea	No data available
citric acid	No data available
alkyl alcohol ethoxylate	No data available
phosphoric acid	No data available
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	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 Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
thiourea		No data available			-
citric acid	LC 50	440	Leuciscus idus	Method not given	48
alkyl alcohol ethoxylate		No data available			
phosphoric acid	LC 50	138	Gambusia affinis	Method not given	96
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	LC 50	0.35	Fish	OECD 203 Read across	96

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
thiourea	EC 50	9	Daphnia magna Straus	Method not given	48
citric acid	EC 50	1535	Daphnia magna Straus	Method not given	24
alkyl alcohol ethoxylate		No data available			
phosphoric acid	EC 50	> 100	Daphnia magna Straus	OECD 202	48
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	EC 50	0.29	Daphnia magna Straus	OECD 202 Read across	48

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
thiourea		No data available			-
citric acid	LC 50	425	Scenedesmus quadricauda	Method not given	168
alkyl alcohol ethoxylate		No data available			
phosphoric acid	EC 50	> 100	Desmodesmus subspicatus	OECD 201	72
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine		No data available			-

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
thiourea		No data available			-
citric acid		No data available			-
alkyl alcohol ethoxylate		No data available			
phosphoric acid		No data available			-
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine		No data available			-

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
thiourea		No data available			
citric acid	EC 50	> 10000	Pseudomonas putida	Method not given	16 hour(s)
alkyl alcohol ethoxylate		No data available			
phosphoric acid	EC 50	270	Activated sludge	Method not given	
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine		No data available			

Aquatic long-term toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
thiourea		No data available				
citric acid		No data available				
alkyl alcohol ethoxylate		No data available				
phosphoric acid		No data available				
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
thiourea		No data available				
citric acid		No data available				
alkyl alcohol ethoxylate		No data available				
phosphoric acid		No data available				
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine		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
thiourea		No data available			-	
citric acid		No data available			-	
alkyl alcohol ethoxylate		No data available				
phosphoric acid		No data available			-	
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine		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
thiourea		No data available			-	
citric acid		No data available			-	
phosphoric acid		No data available			-	
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
thiourea		No data available			-	
citric acid		No data available			-	
phosphoric acid		No data available			-	
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
thiourea		No data available			-	
citric acid		No data available			-	
phosphoric acid		No data available			-	
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
thiourea		No data available			-	
citric acid		No data available			-	
phosphoric acid		No data available			-	
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
thiourea		No data available			-	
citric acid		No data available			-	
phosphoric acid		No data available			-	
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine		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
thiourea					Not readily biodegradable.
citric acid			97 % in 28 day(s)	Method not given	Readily biodegradable
alkyl alcohol ethoxylate					No data available
phosphoric acid					Not applicable (inorganic substance)
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine				OECD 301B	Not 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 h				
Ingredient(s)	Value	Method	Evaluation	Remark
thiourea	< 1	Method not given	No bioaccumulation expected	
citric acid	-1.72		No bioaccumulation expected	
alkyl alcohol ethoxylate	No data available			
phosphoric acid	No data available		No bioaccumulation expected	
4,5-dihydro-2-heptadecyl-1H-imidazole- 1-ethylamine	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
thiourea	No data available				
citric acid	No data available				
alkyl alcohol ethoxylate	No data available				
phosphoric acid	No data available			No bioaccumulation expected	
4,5-dihydro-2-heptadec yl-1H-imidazole-1-ethyl amine					

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
thiourea	No data available	21 / 11 and			High potential for mobility in

			soil
citric acid	No data available		Potential for mobility in soil, soluble in water
alkyl alcohol ethoxylate	No data available		
phosphoric acid	No data available		Potential for mobility in soil, soluble in water
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	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	Т
products:	С
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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.

European Waste Catalogue:

Empty packaging Recommendation: Suitable cleaning agents:

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

SECTION 14: Transport information

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

14.1 UN 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 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:

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 non-ionic surfactants

perfumes

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

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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):, 8

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:

H290 - May be corrosive to metals.

• H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

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< 5%

- H318 Causes serious eye damage.
- H319 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H351 Suspected of causing cancer.
- H361 Suspected of damaging fertility or the unborn child.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 R22 Harmful if swallowed.
 R34 Causes burns.

- R36 Irritating to eyes.
 R40 Limited evidence of a carcinogenic effect.
- R41 Risk of serious damage to eyes.
- R50 Very toxic to aquatic organisms. • R63 - Possible risk of harm to the unborn child.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R51/53 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