

Hagerty Silver Clean Slow

Revision: 2014-10-31

Version: 02.0

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

1.1 Product identifier

Trade name: Hagerty Silver Clean Slow

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, Switzerland

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.

Eye Irrit. 2 (H319)

The product does not meet the criteria for classification in accordance with Directive 1999/45/EC and corresponding national legislation

2.2 Label elements



Signal word: Warning

Hazard statements:

H319 - Causes serious eye irritation.

Precautionary statements:

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

P102 - Keep out of reach of children.

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

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Ingredient(s)	EC number	CAS number	REACH number	Classification	Classification (1999/45/EC)	Notes	Weight percent
isotridecanol, ethoxylated	Polymer*	69011-36-5	[4]	Acute Tox. 4 (H302) Eye Dam. 1 (H318)	Xn;R22 Xi;R41		1-3
sulphuric acid	231-639-5	7664-93-9	01-2119458838-20	Skin Corr. 1A (H314) Met. Corr. 1 (H290)	C;R35		1-3
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		0.1-1
4,5-dihydro-2-heptadecyl-1H-imidazole-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

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 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:

Causes severe irritation.

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

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

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.

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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. 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:

Ingredient(s)	EU - Long term value(s)	EU - Short term value(s)	UK - Long term value(s)	UK - Short term value(s)
sulphuric acid	0.05 mg/m ³		0.05 mg/m ³ mist	

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
isotridecanol, ethoxylated	No data available	No data available	No data available	No data available
sulphuric acid	No data available	No data available	No data available	No data available
thiourea	No data available	No data available	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 - 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)
isotridecanol, ethoxylated	No data available	No data available	No data available	No data available
sulphuric acid	No data available	No data available	No data available	No data available
thiourea	No data available	No data available	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 effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
isotridecanol, ethoxylated	No data available	No data available	No data available	No data available
sulphuric acid	No data available	No data available	No data available	No data available
thiourea	No data available	No data available	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
isotridecanol, ethoxylated	No data available	No data available	No data available	No data available
sulphuric acid	0.1	No data available	0.05	No data available
thiourea	No data available	No data available	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 - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
isotridecanol, ethoxylated	No data available	No data available	No data available	No data available
sulphuric acid	No data available	No data available	No data available	No data available
thiourea	No data available	No data available	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

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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)
isotridecanol, ethoxylated	No data available	No data available	No data available	No data available
sulphuric acid	0.0025	0.00025	No data available	8.8
thiourea	No data available	No data available	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

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m ³)
isotridecanol, ethoxylated	No data available	No data available	No data available	No data available
sulphuric acid	0.002	0.002	No data available	No data available
thiourea	No data available	No data available	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

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 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.

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: 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: 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)
isotridecanol, ethoxylated	No data available		
sulphuric acid	310-335	Method not given	
thiourea	No data available		
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

Vapour pressure: Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
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isotridecanol, ethoxylated	No data available		
sulphuric acid	10	Method not given	20
thiourea	No data available		
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	No data available		

Method / remark

Vapour density: Not determined

Relative density: 1.02 g/cm³ (20 °C)

Solubility in / Miscibility with Water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
isotridecanol, ethoxylated	Soluble	Method not given	20
sulphuric acid	No data available		
thiourea	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

Method / remark

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

Substance data, dissociation constant, if available:

Ingredient(s)	Value	Method	Temperature (°C)
sulphuric acid	1.92 (pKa)	Method not given	

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.

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

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
isotridecanol, ethoxylated	LD ₅₀	> 2000	Rat	OECD 423 (EU B.1 tris)	

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sulphuric acid	LD ₅₀	2140	Rat	Method not given	
thiourea	LD ₅₀	1750	Rat	Method not given	
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)
isotridecanol, ethoxylated		No data available			
sulphuric acid		No data available			
thiourea	LD ₅₀	2800	Rat	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)
isotridecanol, ethoxylated		No data available			
sulphuric acid	LC ₅₀	0.375 (mist)	Rat	OECD 403 (EU B.2)	
thiourea		No data available			
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
isotridecanol, ethoxylated	Not irritant	Rabbit	OECD 404 (EU B.4)	
sulphuric acid	Corrosive	Rabbit	Method not given	
thiourea	No data available			
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
isotridecanol, ethoxylated	Severe damage	Rabbit	OECD 405 (EU B.5)	
sulphuric acid	Corrosive	Rabbit	Method not given	
thiourea	No data available			
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
isotridecanol, ethoxylated	No data available			
sulphuric acid	No data available			
thiourea	No data available			
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
isotridecanol, ethoxylated	No data available			
sulphuric acid	Not sensitising			
thiourea	No data available			
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
isotridecanol, ethoxylated	No data available			
sulphuric acid	No data available			
thiourea	No data available			
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	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)
isotridecanol, ethoxylated	No data available		No data available	
sulphuric acid	No data available		No data available	
thiourea	No data available		No data available	

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4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	No data available		No data available	
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Carcinogenicity

Ingredient(s)	Effect
isotridecanol, ethoxylated	No data available
sulphuric acid	No evidence for carcinogenicity, negative test results
thiourea	Limited evidence of a carcinogenic effect.
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	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
isotridecanol, ethoxylated			No data available				
sulphuric acid			No data available				
thiourea		Teratogenic effects	No data available				Indications of possible teratogenicity
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine			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
isotridecanol, ethoxylated		No data available				
sulphuric acid	NOAEL	150	Rat	Method not given	60	
thiourea		No data available				
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
isotridecanol, ethoxylated		No data available				
sulphuric acid		No data available				
thiourea		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
isotridecanol, ethoxylated		No data available				
sulphuric acid	TCL ₀	3	Human	Method not given	non-standard	
thiourea		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
isotridecanol, ethoxylated			No data available					
sulphuric acid			No data available					
thiourea			No data available					
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
isotridecanol, ethoxylated	No data available
sulphuric acid	No data available
thiourea	No data available
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	No data available

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STOT-repeated exposure

Ingredient(s)	Affected organ(s)
isotridecanol, ethoxylated	No data available
sulphuric acid	No data available
thiourea	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)
isotridecanol, ethoxylated	LC ₅₀	10 - 100	<i>Leuciscus idus</i>	Method not given	96
sulphuric acid	LC ₅₀	16 - 28	<i>Lepomis macrochirus</i>	Method not given	96
thiourea		No data available			
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	LC ₅₀	0.35	<i>Fish</i>	OECD 203 Read across	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
isotridecanol, ethoxylated	EC ₅₀	10 - 100	<i>Not specified</i>	Method not given	48
sulphuric acid	EC ₅₀	29	<i>Daphnia magna Straus</i>	Method not given	24
thiourea	EC ₅₀	9	<i>Daphnia magna Straus</i>	Method not given	48
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	EC ₅₀	0.29	<i>Daphnia magna Straus</i>	OECD 202 Read across	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
isotridecanol, ethoxylated	EC ₅₀	10 - 100	<i>Not specified</i>	Method not given	72
sulphuric acid	EC ₅₀	> 100	<i>Desmodesmus subspicatus</i>	Method not given	72
thiourea		No data available			
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
isotridecanol, ethoxylated		No data available			
sulphuric acid		No data available			
thiourea		No data available			
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
isotridecanol, ethoxylated	EC ₁₀	> 10000	<i>Bacteria</i>	DIN 38412 / Part 8	17 hour(s)
sulphuric acid	EC ₅₀	58	<i>Activated sludge</i>	Method not given	120 hour(s)
thiourea		No data available			
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine		No data available			

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Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
isotridecanol, ethoxylated		No data available				
sulphuric acid	NOEC	0.31	<i>Salvelinus fontinalis</i>	Method not given		
thiourea		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
isotridecanol, ethoxylated		No data available				
sulphuric acid	NOEC	0.15	<i>Daphnia magna</i>	Method not given		
thiourea		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
isotridecanol, ethoxylated		No data available				
sulphuric acid		No data available				
thiourea		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:

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if 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
isotridecanol, ethoxylated		CO ₂ production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
sulphuric acid					Not applicable (inorganic substance)
thiourea					Not readily biodegradable.
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 Kow)

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Ingredient(s)	Value	Method	Evaluation	Remark
isotridecanol, ethoxylated	No data available		No bioaccumulation expected	
sulphuric acid	No data available		No bioaccumulation expected	
thiourea	< 1	Method not given	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
isotridecanol, ethoxylated	No data available				
sulphuric acid	No data available				
thiourea	No data available				
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	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
isotridecanol, ethoxylated	No data available				Potential for adsorption to soil
sulphuric acid	No data available				Low potential for adsorption to soil
thiourea	No data available				High potential for mobility in soil
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 considerations13.1 Waste treatment methods
Waste from residues / unused products:

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

European Waste Catalogue:

Empty packaging

Recommendation:

Dispose of observing national or local regulations.

Suitable cleaning agents:

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.

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

< 5%

15.2 Chemical safety assessment

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

SECTION 16: Other information

Hagerty Silver Clean Slow

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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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):, 13

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.
- H318 - Causes serious eye damage.
- 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.
- R35 - Causes severe burns.
- R40 - Limited evidence of a carcinogenic effect.
- R41 - Risk of serious damage to eyes.
- 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