

Hagerty Silver Dip

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Version: 02.0

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

1.1 Product identifier

Trade name: Hagerty Silver Dip

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.

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.

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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-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****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 effects, both acute and delayed**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 value(s)	EU - Short term value(s)	UK - Long term value(s)	UK - Short term 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**

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
thiourea	No data available	No data available	No data available	No data available
citric acid	No data available	No data available	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	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)
thiourea	No data available	No data available	No data available	No data available
citric acid	No data available	No data available	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	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

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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	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	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	No data available	No data available	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	2.92	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
thiourea	No data available	No data available	No data available	No data available
citric acid	No data available	No data available	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	0.73	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

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	No data available	> 1000
alkyl alcohol ethoxylate	No data available	No data available	No data available	No data available
phosphoric acid	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)
thiourea	No data available	No data available	No data available	No data available
citric acid	34.6	3.46	33.1	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	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:

Hand protection:

Safety glasses or goggles (EN 166).
 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: \geq 480 min
 Material thickness: \geq 0.7 mm

Suggested gloves for protection against splashes:

Material: nitrile rubber
 Penetration time: \geq 30 min
 Material thickness: \geq 0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

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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

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

Method / remark

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

Vapour pressure: Not determined

Substance data, vapour pressure

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

Vapour density: Not determined

Relative density: 1.04 g/cm³ (20 °C)

Solubility in / Miscibility with Water: Fully miscible

Substance data, solubility in water

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

Method / remark

Autoignition temperature: Not determined

Decomposition temperature: Not determined

Viscosity: Not determined

Explosive properties: Not explosive.

Oxidising properties: Not oxidising

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

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.

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)
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			

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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

Sensitisation by skin contact

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)

Mutagenicity

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	
phosphoric acid	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 473 OECD 476 (Mouse lymphoma)	No data available	
4,5-dihydro-2-heptadecyl-1H-imidazole-1-ethylamine	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

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
thiourea		Teratogenic effects	No data available				Indications of possible teratogenicity

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citric acid			No data available				No evidence for reproductive toxicity
alkyl alcohol ethoxylate			No data available				
phosphoric acid	NOAEL	Developmental toxicity	410	Rat	OECD 422, oral	10 day(s)	No evidence for reproductive toxicity No evidence for developmental toxicity
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
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-heptadecyl-1H-imidazole-1-ethylamine			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

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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	<i>Leuciscus idus</i>	Method not given	48
alkyl alcohol ethoxylate		No data available			
phosphoric acid	LC ₅₀	138	<i>Gambusia affinis</i>	Method not given	96
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)
thiourea	EC ₅₀	9	<i>Daphnia magna Straus</i>	Method not given	48
citric acid	EC ₅₀	1535	<i>Daphnia magna Straus</i>	Method not given	24
alkyl alcohol ethoxylate		No data available			
phosphoric acid	EC ₅₀	> 100	<i>Daphnia magna Straus</i>	OECD 202	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)
thiourea		No data available			
citric acid	LC ₅₀	425	<i>Scenedesmus quadricauda</i>	Method not given	168
alkyl alcohol ethoxylate		No data available			
phosphoric acid	EC ₅₀	> 100	<i>Desmodesmus subspicatus</i>	OECD 201	72
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)
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			

Impact on sewage plants - toxicity to bacteria

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

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

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:

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
thiourea					Not readily biodegradable.
citric acid			97 % in 28 day(s)	Method not given	Readily biodegradable

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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 Kow)

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-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
thiourea	No data available				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 products:

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

European Waste Catalogue:

20 01 29* - detergents containing dangerous substances.

Empty packaging

Recommendation:

Dispose of observing national or local regulations.

Suitable cleaning agents:

Water, if necessary with cleaning agent.

SECTION 14: Transport information

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

Class: -

14.4 Packing group: Non-dangerous goods

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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

< 5%

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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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.
- 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