

# Material Safety Data Sheet

According to 91/155 EC

Printing date 29.01.2001

Reviewed on 04.01.1996

## 1 Product and company identification:

- **Brandname:** HAGERTY SILVER CLEAN
- **Manufacturer/Supplier:**  
DiverseyLever  
Rembrandtlaan 414  
7545 ZW Enschede, the Netherlands  
Tel +31-534887766
- **Information department:** Hagerty Export
- **Emergency information:** Hagerty Export

## 2 Composition / Information on ingredients:

- **Chemical characterization**
- **Description:** Mixture in water of non-dangerous ingredients and the substances listed below.

### · Hazardous ingredients:

	non-ionic surfactants	Xn, N; 22-41-50	< 5 %
62-56-6	thiourea	Xn, N; 63-22-40-51/53	5-15%
77-92-9	citric acid	Xi; 36	< 5%
7664-38-2	phosphoric acid	C; 34	< 5%

### · Ingredients according to EC 89/542

non-ionic surfactants, phosphates	< 5%
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## 3 Hazards identification

### · Classification:



Xn Harmful

- **Risk phrases:**  
R 40 Possible risks of irreversible effects.
- **Classification system**  
The classification complies with current EC regulations on dangerous substances and preparations.

## 4 First aid measures

- **Inhalation** Remove from source of exposure. Obtain medical attention if symptoms develop.
- **Skin contact** Not applicable.
- **Eye contact** Wash immediately with copious amounts of water and obtain medical attention.
- **Ingestion** In case of persistent symptoms obtain medical attention.

## 5 Fire fighting measures

- **Suitable extinguishing media**  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

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- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Protection of personnel:** Not required.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter the ground/soil.
- **Method of disposal:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralizing agent.

### 7 Handling and storage

- **Handling (see also sections 8 and 15)**
- **Information for safe handling:** Use common rules for working with chemicals.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements for storage rooms and containers:** No special requirements.
- **Storage in one common storage facility:** According to local legislation.
- **Further information about storage conditions:** None.

### 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**  
Keep away from foodstuffs, beverages and food.  
Wash hands during breaks and at the end of the work.
- **Breathing equipment:** Personal protection is not normally required.
- **Protection of hands:** Protective gloves.
- **Eye protection:** Safety glasses recommended during refilling.

### 9 Physical and chemical properties:

- **Form:** Fluid
- **Colour:** Clear
- **Odour:** Blue
- **Change in condition**  
**Melting point/Melting range:** Not determined  
**Boiling point/Boiling range:** 100°C
- **Flash point:** Not applicable
- **Spontaneous combustion:** Product is not self igniting.
- **Danger of explosion:** Product is not explosive.
- **Vapour pressure at 20°C:** 23 mbar
- **Density at 20°C:** 1.04 g/cm<sup>3</sup>
- **Solubility in / Miscibility with Water:** Fully miscible

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· **pH-value:** *pH* ≤ 2.0

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Hazardous decomposition products:** No dangerous decomposition products known

### 11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

**62-56-6 thiourea**

Oral	LD50	1750 mg/kg (rat)
Dermal	LD50	2800 mg/kg (rbt)

- **Primary irritant effect:**
- **on the skin:** Unlikely to be irritant in normal use.
- **on the eye:** Unlikely to be irritant in normal use.
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:** EC classification:

### 12 Ecological information:

- **General notes:**  
The surfactants used in this product are biodegradable in compliance with the requirements of EC Directives 73/404/EEC and 73/405/EEC and their subsequent amendments.

### 13 Disposal considerations

- **Product:**
- **Recommendation**  
Must not be disposed of together with domestic waste. Do not allow undiluted product to reach sewage system.  
For disposal contact a licensed waste management company.
- **Uncleaned packagings:**
- **Recommendation:** Dispose of observing official regulations.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

### 14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID-GGVS/E Class:** -

### 15 Regulatory information

- **Classification according to EC guidelines:**  
The product has been classified and labelled in accordance with current EC Directives.

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**· Symbol and hazard designation of product:***Xn Harmful***· Ingredients responsible for the classification:***thiourea***· Risk phrases:***40 Possible risks of irreversible effects.***· Safety phrases:***2 Keep out of the reach of children.**37 Wear suitable gloves.**46 If swallowed, seek medical advice immediately and show this container or label.**13 Keep away from food, drink and animal feedingstuffs.**25 Avoid contact with eyes.**26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.**51 Use only in well-ventilated areas.***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.*

**· Department issuing material safety data sheet:** *Hagerty Export***· Contact:** *Mrs. M. Venema*