

Material Safety Data Sheet

According to 91/155 EC

Printing date 29.01.2001

Reviewed on 18.07.1997

1 Product and company identification:

- **Brandname:** HAGERTY SILVER DIP
- **Manufacturer/Supplier:**
DiverseyLever
Rembrandilaan 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**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

(Contd. on page 2)

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(Contd. of page 1)

- **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**
Characteristic
- **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/cm³
- **Solubility in / Miscibility with Water:** Fully miscible

(Contd. on page 3)

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(Contd. of page 2)

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.

(Contd. on page 4)

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(Contd. of page 3)

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**