



Silver Dip Cleaner- Medium Strength (Silver Sparkle/Silver Rinse)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Revision date: 12/12/2018 Supersedes: 07/08/2018 Version: 11.0

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

1.1. Product identifier

Product form : Mixture
Product name : Silver Dip Cleaner- Medium Strength (Silver Sparkle/Silver Rinse)
Product code : MIX062
Type of product : Detergent

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

1.2.1. Relevant identified uses

Intended for general public
Main use category : Consumer use
Use of the substance/mixture : Silver jewellery and cutlery cleaner

1.2.2. Uses advised against

Restrictions on use : Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Town Talk Polish Co Ltd
Slater Lane
Bolton, BL2 2TQ - UK
T +44 (0) 1204 520014 - F +44 (0) 1204 362778
Products@towntalkpolish.com - www.towntalkpolish.com/

1.4. Emergency telephone number

Emergency number : +44 (0) 1204 529981 (9.00am - 5.00pm Monday- Friday UK time)

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111	
United Kingdom	National Poisons Information Service Edinburgh Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0344 892 0111	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2 H319
Carcinogenicity, Category 2 H351
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

None under normal use.

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

GHS08

Signal word (CLP) :

Warning

Hazardous ingredients :

thiourea

Hazard statements (CLP) :

H319 - Causes serious eye irritation.
H351 - Suspected of causing cancer.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P102 - Keep out of reach of children.
P202 - Do not handle until all safety precautions have been read and understood.
P264 - Wash contaminated skin thoroughly after handling.
P280 - Wear protective clothing, protective gloves, eye protection, face protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P405 - Store locked up.
P501 - Dispose of contents/ container in accordance with local regulations.

Extra phrases :

See Section 15 for labelling information in accordance with Regulation (EC) No.648/2004 on detergents.

2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
thiourea	(CAS-No.) 62-56-6 (EC-No.) 200-543-5 (EC Index-No.) 612-082-00-0 (REACH-no) 01-2119977062-37	< 3	Carc. 2, H351 Repr. 2, H361d Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411
Lactic acid	(CAS-No.) 50-21-5 (EC-No.) 200-018-0 (REACH-no) 01-2119548400-48	< 3	Skin Irrit. 2, H315 Eye Dam. 1, H318
sulphamic acid	(CAS-No.) 5329-14-6 (EC-No.) 226-218-8 (EC Index-No.) 016-026-00-0 (REACH-no) 01-2119488633-28	< 1.5	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Aquatic Chronic 3, H412
sulphuric acid ... % substance with a Community workplace exposure limit	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8 (REACH-no) 01-2119458838-20	< 1	Skin Corr. 1A, H314

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Lactic acid	(CAS-No.) 50-21-5 (EC-No.) 200-018-0 (REACH-no) 01-2119548400-48	(1 =<C < 3) Eye Irrit. 2, H319 (3 =<C < 100) Eye Dam. 1, H318 (10 =<C < 100) Skin Irrit. 2, H315
sulphuric acid ... %	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8 (REACH-no) 01-2119458838-20	(5 =<C < 15) Skin Irrit. 2, H315 (5 =<C < 15) Eye Irrit. 2, H319 (15 =<C < 100) Skin Corr. 1A, H314

Full text of H-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, call a doctor.
First-aid measures after skin contact	: Take off contaminated clothing and wash it before reuse. Gently wash with plenty of soap and water. If symptoms persist call a doctor.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. In case of contact, immediately rinse eyes with plenty of water for at least 15 minutes. If symptoms persist call a doctor.
First-aid measures after ingestion	: If swallowed: rinse mouth. Do NOT induce vomiting. Drink plenty of water. Seek medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Suspected carcinogen.
Symptoms/effects after inhalation	: None.
Symptoms/effects after skin contact	: None.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: On ingestion, may affect the liver and kidneys. bone marrow.

4.3. Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing agent suitable for surrounding fire. Dry chemical, CO2, or water spray or regular foam.
Unsuitable extinguishing media	: None.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Sulphur oxides.
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5.3. Advice for firefighters

Firefighting instructions	: Do not allow run-off from fire-fighting to enter drains or water courses.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Avoid contact with skin and eyes.
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6.1.1. For non-emergency personnel

Protective equipment	: For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment	: For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Contain or absorb spilled liquid with earth or other absorbent material. After cleaning, flush traces away with water. If spilled, may cause the floor to be slippery.
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6.4. Reference to other sections

SECTION 8. SECTION 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Keep locked up and out of reach of children. Avoid contact with skin and eyes.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Incompatible products	: Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Silver jewellery and cutlery cleaner.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

sulphuric acid ... % (7664-93-9)	
United Kingdom - Occupational Exposure Limits	
Local name	Sulphuric acid
WEL TWA (mg/m ³)	0.05 mg/m ³ mist
Remark (WEL)	The mist is defined as the thoracic fraction
Regulatory reference	EH40/2005 (Third edition, 2018). HSE

sulphamic acid (5329-14-6)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	10 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	70.5 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	17.4 mg/m ³
Long-term - systemic effects, dermal	5 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	1.8 mg/l
PNEC aqua (marine water)	180 µg/L
PNEC aqua (intermittent, freshwater)	480 µg/L
PNEC (Sediment)	
PNEC sediment (freshwater)	8.36 mg/kg dwt
PNEC sediment (marine water)	840 µg/kg dw
PNEC (Soil)	
PNEC soil	5 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	20 mg/l

thiourea (62-56-6)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	3.4 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	100 µg/kg bodyweight/day
Long-term - systemic effects, inhalation	200 µg/m ³
Long-term - systemic effects, dermal	1.7 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	10 µg/L
PNEC aqua (marine water)	1 µg/L
PNEC aqua (intermittent, freshwater)	38 µg/L
PNEC (Sediment)	
PNEC sediment (freshwater)	72.5 µg/kg dw
PNEC sediment (marine water)	7.25 µg/kg dw
PNEC (Soil)	
PNEC soil	2.725 mg/kg dwt

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thiourea (62-56-6)	
PNEC (STP)	
PNEC sewage treatment plant	380 µg/L
Lactic acid (50-21-5)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	592 mg/m ³
Long-term - local effects, inhalation	592 mg/m ³
DNEL/DMEL (General population)	
Acute - local effects, inhalation	296 mg/m ³
sulphuric acid ... % (7664-93-9)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	100 µg/m ³
Long-term - local effects, inhalation	50 µg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	2.5 µg/L
PNEC aqua (marine water)	0.25 µg/L
PNEC (Sediment)	
PNEC sediment (freshwater)	2 µg/kg dw
PNEC sediment (marine water)	2 mg/kg KW
PNEC (STP)	
PNEC sewage treatment plant	8.8 mg/l

8.2. Exposure controls

Appropriate engineering controls:

Good standard of general ventilation.

Personal protective equipment:

Safety glasses. Gloves.

Hand protection:
Protective gloves made of latex. Nitrile rubber gloves, natural rubber gloves. PVC gloves. EN 374
Eye protection:
EN 166
Respiratory protection:
No respiratory protection needed under normal use conditions

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Very mobile. clear.
Colour	: Colourless.
Odour	: No data available
Odour threshold	: No data available
pH	: 0.5 - 1.4
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available

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Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1013 - 1023 @ 20°C
Solubility	: Miscible with water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. On combustion, forms: sulphur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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ATE CLP (oral)	16891.892
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sulphamic acid (5329-14-6)

LD50 oral rat	2065
LD50 dermal rat	2000

thiourea (62-56-6)

LD50 oral rat	2000 mg/kg
LC50 inhalation rat (mg/l)	195 mg/m ³

Lactic acid (50-21-5)

LD50 oral	3543 mg/kg bodyweight
LD50 dermal	> 2000 mg/kg bodyweight
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 4940 mg/l

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Skin corrosion/irritation	: Not classified (Silver Sparkle has an extreme pH however tests conducted and interpreted in accordance with OECD N. 431:2016 In Vitro Skin Corrosion: Reconstructed Human Epidermis (Rhe) Test Method show that the product is not corrosive to tissue.) pH: 0.5 - 1.4
Serious eye damage/irritation	: Causes serious eye irritation. pH: 0.5 - 1.4
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Other information	: On ingestion, may affect the liver and kidneys. bone marrow.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Harmful to aquatic life with long lasting effects.

sulphamic acid (5329-14-6)	
LC50 fish 1	70.3 mg/l
EC50 Daphnia 1	71.6 mg/l
EC50 72h algae (1)	48 mg/l

thiourea (62-56-6)	
EC50 Daphnia 1	35 ml/l
EC50 72h algae (1)	3.8 mg/l

Lactic acid (50-21-5)	
LC50 fish 1	130 mg/l
EC50 other aquatic organisms 1	130 mg/l waterflea

12.2. Persistence and degradability

Silver Dip Cleaner- Medium Strength (Silver Sparkle/Silver Rinse)	
Persistence and degradability	Product is biodegradable. This surfactant complies 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.

sulphamic acid (5329-14-6)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	0 %

thiourea (62-56-6)	
Persistence and degradability	Inherently biodegradable.
Biodegradation	100 %

Lactic acid (50-21-5)	
Persistence and degradability	Readily biodegradable.
Biodegradation	100 %

12.3. Bioaccumulative potential

Silver Dip Cleaner- Medium Strength (Silver Sparkle/Silver Rinse)	
Bioaccumulative potential	Bioaccumulation unlikely.

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sulphamic acid (5329-14-6)	
Log Kow	0 @ 20°C
Bioaccumulative potential	There is no bioaccumulation.

thiourea (62-56-6)	
Bioconcentration factor (BCF REACH)	54
Log Kow	-0.92 @ 20°C
Bioaccumulative potential	There is no bioaccumulation.

Lactic acid (50-21-5)	
Log Kow	-0.62 @ 20°C

12.4. Mobility in soil

Silver Dip Cleaner- Medium Strength (Silver Sparkle/Silver Rinse)	
Ecology - soil	Miscible with water. Expected to be highly mobile in soil.

12.5. Results of PBT and vPvB assessment

Silver Dip Cleaner- Medium Strength (Silver Sparkle/Silver Rinse)	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

Component	
sulphamic acid (5329-14-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
thiourea (62-56-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Lactic acid (50-21-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects : None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

No supplementary information available

14.6. Special precautions for user

Overland transport

Not regulated

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Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

Detergent Regulation : Labelling of contents:	
Component	%
anionic surfactants	<5%
perfumes	

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out

sulphamic acid
thiourea
Lactic acid
sulphuric acid ... %

SECTION 16: Other information

Indication of changes:

Sds reformatted, no change to classification.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.

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H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



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

1.1. Product identifier

Product form : Mixture
Product name : Silver Dip Cleaner- Maximum Strength (Silver Sparkle/Silver Rinse)
Product code : MIX023
Type of product : Detergent

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

1.2.1. Relevant identified uses

Intended for general public
Main use category : Consumer use
Use of the substance/mixture : Silver jewellery and cutlery cleaner

1.2.2. Uses advised against

Restrictions on use : Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Town Talk Polish Co Ltd
Slater Lane
Bolton, BL2 2TQ - UK
T +44 (0) 1204 520014 - F +44 (0) 1204 362778
Products@towntalkpolish.com - www.towntalkpolish.com/

1.4. Emergency telephone number

Emergency number : +44 (0) 1204 529981 (9.00am - 5.00pm Monday- Friday UK time)

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111	
United Kingdom	National Poisons Information Service Edinburgh Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0344 892 0111	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2 H319
Carcinogenicity, Category 2 H351
Reproductive toxicity, Category 2 H361d
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

None under normal use.

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

GHS08

Signal word (CLP)

: Warning

Hazardous ingredients

: thiourea

Hazard statements (CLP)

: H319 - Causes serious eye irritation.
H351 - Suspected of causing cancer.
H361d - Suspected of damaging the unborn child.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P102 - Keep out of reach of children.
P202 - Do not handle until all safety precautions have been read and understood.
P264 - Wash contaminated skin thoroughly after handling.
P280 - Wear protective clothing, protective gloves, eye protection, face protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P405 - Store locked up.
P501 - Dispose of contents/ container in accordance with local regulations.

Extra phrases

: See Section 15 for labelling information in accordance with Regulation (EC) No.648/2004 on detergents.

2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
thiourea	(CAS-No.) 62-56-6 (EC-No.) 200-543-5 (EC Index-No.) 612-082-00-0 (REACH-no) 01-2119977062-37	5 - 10	Carc. 2, H351 Repr. 2, H361d Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411
Lactic acid	(CAS-No.) 50-21-5 (EC-No.) 200-018-0 (REACH-no) 01-2119548400-48	< 3	Skin Irrit. 2, H315 Eye Dam. 1, H318
sulphamic acid	(CAS-No.) 5329-14-6 (EC-No.) 226-218-8 (EC Index-No.) 016-026-00-0 (REACH-no) 01-2119488633-28	< 1.5	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Aquatic Chronic 3, H412
sulphuric acid ... % substance with a Community workplace exposure limit	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8 (REACH-no) 01-2119458838-20	< 1	Skin Corr. 1A, H314

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Lactic acid	(CAS-No.) 50-21-5 (EC-No.) 200-018-0 (REACH-no) 01-2119548400-48	(1 =<C < 3) Eye Irrit. 2, H319 (3 =<C < 100) Eye Dam. 1, H318 (10 =<C < 100) Skin Irrit. 2, H315
sulphuric acid ... %	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8 (REACH-no) 01-2119458838-20	(5 =<C < 15) Skin Irrit. 2, H315 (5 =<C < 15) Eye Irrit. 2, H319 (15 =<C < 100) Skin Corr. 1A, H314

Full text of H-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, call a doctor.
First-aid measures after skin contact	: Take off contaminated clothing and wash it before reuse. Gently wash with plenty of soap and water. If symptoms persist call a doctor.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. In case of contact, immediately rinse eyes with plenty of water for at least 15 minutes. If symptoms persist call a doctor.
First-aid measures after ingestion	: If swallowed: rinse mouth. Do NOT induce vomiting. Drink plenty of water. Seek medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Suspected carcinogen. Suspected of damaging the unborn child.
Symptoms/effects after inhalation	: None.
Symptoms/effects after skin contact	: None.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: On ingestion, may affect the liver and kidneys. bone marrow.

4.3. Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing agent suitable for surrounding fire. Dry chemical, CO ₂ , or water spray or regular foam.
Unsuitable extinguishing media	: None.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Sulphur oxides.
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5.3. Advice for firefighters

Firefighting instructions	: Do not allow run-off from fire-fighting to enter drains or water courses.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Avoid contact with skin and eyes.
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6.1.1. For non-emergency personnel

Protective equipment	: For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment	: For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Contain or absorb spilled liquid with earth or other absorbent material. After cleaning, flush traces away with water. If spilled, may cause the floor to be slippery.
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6.4. Reference to other sections

SECTION 8. SECTION 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Keep locked up and out of reach of children. Avoid contact with skin and eyes. Avoid contact during pregnancy/while nursing.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Incompatible products	: Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Silver jewellery and cutlery cleaner.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

sulphuric acid ... % (7664-93-9)	
United Kingdom - Occupational Exposure Limits	
Local name	Sulphuric acid
WEL TWA (mg/m ³)	0.05 mg/m ³ mist
Remark (WEL)	The mist is defined as the thoracic fraction
Regulatory reference	EH40/2005 (Third edition, 2018). HSE

sulphamic acid (5329-14-6)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	10 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	70.5 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	17.4 mg/m ³
Long-term - systemic effects, dermal	5 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	1.8 mg/l
PNEC aqua (marine water)	180 µg/L
PNEC aqua (intermittent, freshwater)	480 µg/L
PNEC (Sediment)	
PNEC sediment (freshwater)	8.36 mg/kg dwt
PNEC sediment (marine water)	840 µg/kg dw
PNEC (Soil)	
PNEC soil	5 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	20 mg/l

thiourea (62-56-6)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	3.4 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	100 µg/kg bodyweight/day
Long-term - systemic effects, inhalation	200 µg/m ³
Long-term - systemic effects, dermal	1.7 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	10 µg/L
PNEC aqua (marine water)	1 µg/L
PNEC aqua (intermittent, freshwater)	38 µg/L
PNEC (Sediment)	
PNEC sediment (freshwater)	72.5 µg/kg dw
PNEC sediment (marine water)	7.25 µg/kg dw
PNEC (Soil)	
PNEC soil	2.725 mg/kg dwt

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thiourea (62-56-6)	
PNEC (STP)	
PNEC sewage treatment plant	380 µg/L
Lactic acid (50-21-5)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	592 mg/m ³
Long-term - local effects, inhalation	592 mg/m ³
DNEL/DMEL (General population)	
Acute - local effects, inhalation	296 mg/m ³
sulphuric acid ... % (7664-93-9)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	100 µg/m ³
Long-term - local effects, inhalation	50 µg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	2.5 µg/L
PNEC aqua (marine water)	0.25 µg/L
PNEC (Sediment)	
PNEC sediment (freshwater)	2 µg/kg dw
PNEC sediment (marine water)	2 mg/kg KW
PNEC (STP)	
PNEC sewage treatment plant	8.8 mg/l

8.2. Exposure controls

Appropriate engineering controls:

Good standard of general ventilation.

Personal protective equipment:

Safety glasses. Gloves.

Hand protection:
Protective gloves made of latex. Nitrile rubber gloves, natural rubber gloves. PVC gloves. EN 374
Eye protection:
EN 166
Respiratory protection:
No respiratory protection needed under normal use conditions

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Very mobile. clear.
Colour	: Colourless.
Odour	: No data available
Odour threshold	: No data available
pH	: 0.5 - 1.4
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available

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Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1025 - 1035 @ 20°C
Solubility	: Miscible with water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. On combustion, forms: sulphur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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ATE CLP (oral)	6729.475
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sulphamic acid (5329-14-6)

LD50 oral rat	2065
LD50 dermal rat	2000

thiourea (62-56-6)

LD50 oral rat	2000 mg/kg
LC50 inhalation rat (mg/l)	195 mg/m ³

Lactic acid (50-21-5)

LD50 oral	3543 mg/kg bodyweight
LD50 dermal	> 2000 mg/kg bodyweight
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 4940 mg/l

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Skin corrosion/irritation	: Not classified (Silver Sparkle has an extreme pH however tests conducted and interpreted in accordance with OECD N. 431:2016 In Vitro Skin Corrosion: Reconstructed Human Epidermis (Rhe) Test Method show that the product is not corrosive to tissue.) pH: 0.5 - 1.4
Serious eye damage/irritation	: Causes serious eye irritation. pH: 0.5 - 1.4
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Suspected of damaging the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Other information	: On ingestion, may affect the liver and kidneys. bone marrow.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Harmful to aquatic life with long lasting effects.

sulphamic acid (5329-14-6)	
LC50 fish 1	70.3 mg/l
EC50 Daphnia 1	71.6 mg/l
EC50 72h algae (1)	48 mg/l

thiourea (62-56-6)	
EC50 Daphnia 1	35 ml/l
EC50 72h algae (1)	3.8 mg/l

Lactic acid (50-21-5)	
LC50 fish 1	130 mg/l
EC50 other aquatic organisms 1	130 mg/l waterflea

12.2. Persistence and degradability

Silver Dip Cleaner- Maximum Strength (Silver Sparkle/Silver Rinse)	
Persistence and degradability	Product is biodegradable. This surfactant complies 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.

sulphamic acid (5329-14-6)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	0 %

thiourea (62-56-6)	
Persistence and degradability	Inherently biodegradable.
Biodegradation	100 %

Lactic acid (50-21-5)	
Persistence and degradability	Readily biodegradable.
Biodegradation	100 %

12.3. Bioaccumulative potential

Silver Dip Cleaner- Maximum Strength (Silver Sparkle/Silver Rinse)	
Bioaccumulative potential	Bioaccumulation unlikely.

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sulphamic acid (5329-14-6)	
Log Kow	0 @ 20°C
Bioaccumulative potential	There is no bioaccumulation.

thiourea (62-56-6)	
Bioconcentration factor (BCF REACH)	54
Log Kow	-0.92 @ 20°C
Bioaccumulative potential	There is no bioaccumulation.

Lactic acid (50-21-5)	
Log Kow	-0.62 @ 20°C

12.4. Mobility in soil

Silver Dip Cleaner- Maximum Strength (Silver Sparkle/Silver Rinse)	
Ecology - soil	Miscible with water. Expected to be highly mobile in soil.

12.5. Results of PBT and vPvB assessment

Silver Dip Cleaner- Maximum Strength (Silver Sparkle/Silver Rinse)	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

Component	
sulphamic acid (5329-14-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
thiourea (62-56-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Lactic acid (50-21-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
sulphuric acid ... % (7664-93-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects : None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

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14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

Detergent Regulation : Labelling of contents:	
Component	%
anionic surfactants	<5%
perfumes	

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out

sulphamic acid
thiourea
Lactic acid
sulphuric acid ... %

SECTION 16: Other information

Indication of changes:

Sds reformatted, no change to classification.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H302	Harmful if swallowed.

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H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.