

# Safety data sheet

according to 1907/2006/EC, Article 31

SAMBOL

Printing date 09.04.2015

Version number 1

Revision: 09.04.2015

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

- **1.1 Product identifier**
- **Trade name:** Gold and Silver Cleaner
- **Article number:** 0175, 0225, 1175, 5175
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture**  
Surface active agent  
Cleaning agent/ Cleaner
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Sambol-IBS GmbH  
Walter-Schellenberg-Str. 6  
78315 Radolfzell  
Competent person acc. to Regulation (EC) No. 1907/2006:  
Telefon: +49-(0)7732 5 65 69  
Fax: +49-(0)7732 4627  
kontakt@sambol.de
- **Further information obtainable from:**  
Mr Sambol  
Telefon: +49-(0)7732 5 65 69; Fax: +49-(0)7732 4627
- **1.4 Emergency telephone number:**  
Between the usual hours of business:  
Monday - Thursday, between 8.00 - 12.00 o'clock  
and between 13.00 - 16.00 o'clock  
Friday, between 8.00 - 12.00 o'clock  
Tel.: +49(0)7732 5 65 69


## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**  
Carc. 2                    H351    Suspected of causing cancer.  
Repr. 2                    H361d   Suspected of damaging the unborn child.  
Aquatic Chronic 3 H412   Harmful to aquatic life with long lasting effects.

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  - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
Xn; Harmful  
R40:        Limited evidence of a carcinogenic effect.  
R52/53:    Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
  - **Information concerning particular hazards for human and environment:**  
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
  - **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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  - **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
  - **Hazard pictograms**
- 

GHS08
- **Signal word** Warning

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GB

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- **Hazard-determining components of labelling:**

Thiourea

- **Hazard statements**

H351 Suspected of causing cancer.

H361d Suspected of damaging the unborn child.

H412 Harmful to aquatic life with long lasting effects.

- **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 62-56-6	Thiourea	3-7%
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EINECS: 200-543-5	Xn R22-40-63; N R51/53	
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Index number: 612-082-00-0	Carc. Cat. 3, Repr. Cat. 3	
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Reg.nr.: 01-2119977062-37-XXXX	Carc. 2, H351; Repr. 2, H361d; Aquatic Chronic 2, H411; Acute Tox. 4, H302	
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CAS: 7647-01-0	hydrogen chloride	<1%
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EINECS: 231-595-7	C R34; Xi R37	
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Index number: 017-002-00-2	Met. Corr.1, H290; Skin Corr. 1B, H314; STOT SE 3, H335	
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- **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

phosphates, non-ionic surfactants, BENZOTRIAZOLE	< 5%
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- **Additional information:** For the wording of the listed risk phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General information:** Immediately remove any clothing soiled by the product.

- **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

- **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

- **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

- **Information for doctor:**

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

- **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
The product is not flammable.  
Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture**  
After evaporation of water (in case of a mass fire for example) the following substances may be formed, if heating goes on:  
Carbon dioxide (CO<sub>2</sub>)  
Incomplete combustion may cause Carbon monoxide, toxic fumes and smouldering gases.  
Phosphorus oxides  
Sulphur oxides (SO<sub>x</sub>)  
Nitrogen oxides (NO<sub>x</sub>)
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information**  
Collect contaminated fire fighting water separately. It must not enter the sewage system.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
This material burns after evaporation of water.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to penetrate the ground/soil.  
In case of seepage into the ground inform responsible authorities.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
For large amounts: Pump off product.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
Store in cool, dry place in tightly closed receptacles.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** The product is not flammable.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store only in the original receptacle.  
Prevent any seepage into the ground.
- **Information about storage in one common storage facility:**  
Store away from oxidising agents.  
Store away from foodstuffs.  
Do not store together with alkalis (caustic solutions).

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- **Further information about storage conditions:**  
Keep container tightly sealed.  
The shelf life stated on the label is subject to correct storage of the product.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

#### 7664-38-2 phosphoric acid (1<3%)

WEL Short-term value: 2 mg/m<sup>3</sup>Long-term value: 1 mg/m<sup>3</sup>

- **DNELs**

#### 62-56-6 Thiourea

Oral DNEL Langzeit, systemische Wirkung 0.1 mg/kg bw/d (general population)

Dermal DNEL Langzeit, systemische Wirkung 3.4 mg/kg bw/d (worker)

1.7 mg/kg bw/d (general population)

Inhalative DNEL Langzeit, systemische Wirkung 1 mg/m<sup>3</sup> (worker)0.2 mg/m<sup>3</sup> (general population)

#### 7647-01-0 hydrogen chloride

Inhalative DNEL

15 mg/m<sup>3</sup> (worker short-term)8 mg/m<sup>3</sup> (worker long-term)

- **PNECs**

#### 62-56-6 Thiourea

PNEC - Abwasserbehandlungsanlage 0.38 mg/l (sewage treatment plant)

PNEC - Boden 2.725 mg/kg dw (soil)

PNEC - Sediment 0.00725 mg/kg dw (water (marine water))

0.0725 mg/kg dw (water (freshwater))

PNEC - wässrige Systeme 0.001 mg/l (water (marine water))

0.01 mg/l (water (freshwater))

0.038 mg/l (water (intermittent releases))

#### 7647-01-0 hydrogen chloride

PNEC - wässrige Systeme 0.036 mg/l (sewage treatment plant)

0.036 mg/l (water (marine water))

0.036 mg/l (water (freshwater))

0.045 mg/l (water (intermittent releases))

- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Use skin protection cream for skin protection.

- **Respiratory protection:**

Use suitable respiratory protective device only when aerosol or mist is formed.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- **Recommended filter device for short term use:** filter FFP2

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- **Protection of hands:**  
Protective gloves  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **Material of gloves**  
Nitrile rubber, NBR  
Chloroprene rubber, CR  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Gauze goggles
- **Body protection:**  
Choose personal protective equipment according to activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to DIN-EN 465).

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Clear
	-
	Light
	Yellowish
- **Odour:** Odourless
- **pH-value at 20 °C:** 2.2
- **Change in condition**
  - Melting point/Melting range:** Undetermined.
  - Boiling point/Boiling range:** 100 °C
- **Flash point:** Not applicable.
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Vapour pressure at 20 °C:** 23 hPa
- **Density at 20 °C:** 1.02 g/cm<sup>3</sup>
- **Solubility in / Miscibility with water:** Fully miscible.
- **Viscosity:** fluid, watery
- **Solvent content:**
  - Organic solvents:** 0.0 %
  - VOC (EC)** 0,00 %
- **9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.

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- **10.3 Possibility of hazardous reactions**  
Reacts with oxidising agents.  
Reacts with alkali (lyes).  
Reacts with strong acids.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**  
Strong oxidizing agents  
Concentrated acids and alkali (lyes)
- **10.6 Hazardous decomposition products:**  
Concerning decomposition products in the event of fire, see Chapter 5.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
  - **Acute toxicity:**
  - **LD/LC50 values relevant for classification:**
- 
- 62-56-6 Thiourea**  
Oral LD 50 >2000<2500 mg/kg (Ratte weiblich)  
Dermal LD 50 > 2800 mg/kg (rabbit)
- 7647-01-0 hydrogen chloride**  
Dermal LD 50 > 5010 mg/kg (rabbit)
- **Primary irritant effect:**
  - **on the skin:** No irritant effect.
  - **on the eye:** No irritating effect.
  - **Sensitisation:** No sensitising effects known.
  - **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Harmful
  - **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Carc. 2, Repr. 2

### SECTION 12: Ecological information

- **12.1 Toxicity**
  - **Aquatic toxicity:**
- 
- 62-56-6 Thiourea**  
EC 10 (18h) 1265 mg/l (Pseudomonas putida)  
EC 50 (48h) 35 mg/l (Daphnie)  
EC 50 (96h) 6.8 mg/l (Desmodesmus subspicatus)  
LC 50 (48h) > 10000 mg/l (Leuciscus idus)  
LC 50 (96h) 10000 mg/l (Brachydanio rerio)
- 7647-01-0 hydrogen chloride**  
LC 50 (96h) 24.6 mg/l (Lepomis macrochirus)  
7.45 mg/l (Oncorhynchus mykiss)
- **12.2 Persistence and degradability** Heavily biodegradable
  - **Biodegradability**
- 
- 62-56-6 Thiourea**  
Biolog. Abbaubarkeit 0 % (OECD 301 C) ((34 d))  
3 % (OECD 301 E) ((28 d))
- **12.3 Bioaccumulative potential** No further relevant information available.
  - **12.4 Mobility in soil** No further relevant information available.
  - **Ecotoxicological effects:**
  - **Remark:** Harmful to fish

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- **Additional ecological information:**

- **General notes:**

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.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Must be specially treated adhering to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **Waste disposal key:**

The mentioned waste codes are recommendations based on the product application as suggested by the manufacturer. Special applications and special disposal conditions at the applier's place may however require another waste code.

- **European waste catalogue**

11 01 11\* aqueous rinsing liquids containing dangerous substances

11 01 98\* other wastes containing dangerous substances

16 03 03\* inorganic wastes containing dangerous substances

- **Uncleaned packaging:**

- **Recommendation:**

Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

### SECTION 14: Transport information

- **14.1 UN-Number**

- **ADR, ADN, IMDG, IATA**

Void

- **14.2 UN proper shipping name**

- **ADR, ADN, IMDG, IATA**

Void

- **14.3 Transport hazard class(es)**

- **ADR, ADN, IMDG, IATA**

- **Class**

Void

- **14.4 Packing group**

- **ADR, IMDG, IATA**

Void

- **14.5 Environmental hazards:**

- **Marine pollutant:**

No

- **14.6 Special precautions for user**

Not applicable.

- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

- **Transport/Additional information:**

Not dangerous according to the above specifications.

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- **UN "Model Regulation":** UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (SULPHURIC ACID, PHOSPHORIC ACID), 8, II

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Information about limitation of use:**  
Employment restrictions concerning juveniles must be observed.  
Employment restrictions concerning pregnant and lactating women must be observed.
- **Class Share in %**
- **I 3-7**
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
  - H290 May be corrosive to metals.
  - H302 Harmful if swallowed.
  - H314 Causes severe skin burns and eye damage.
  - H335 May cause respiratory irritation.
  - H351 Suspected of causing cancer.
  - H361d Suspected of damaging the unborn child.
  - H411 Toxic to aquatic life with long lasting effects.
- R22 Harmful if swallowed.
- R34 Causes burns.
- R37 Irritating to respiratory system.
- R40 Limited evidence of a carcinogenic effect.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R63 Possible risk of harm to the unborn child.
- **Contact:** Mr Sambol Tel. +49-(0)7732 5 65 69
- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - VOC: Volatile Organic Compounds (USA, EU)
  - DNEL: Derived No-Effect Level (REACH)
  - PNEC: Predicted No-Effect Concentration (REACH)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - Met. Corr. 1: Corrosive to metals, Hazard Category 1
  - Acute Tox. 4: Acute toxicity, Hazard Category 4
  - Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
  - Carc. 2: Carcinogenicity, Hazard Category 2
  - Repr. 2: Reproductive toxicity, Hazard Category 2
  - STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
  - Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
  - Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3
- **\* Data compared to the previous version altered.**