


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

- **1.1 Product identifier**
- **Trade name: Coin Dipping Bath for Copper-Brass**
- **Article number:** 0255-5
- **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**
Met. Corr.1 H290 May be corrosive to metals.

 - **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**
- 

GHS05
- **Signal word** Warning
 - **Hazard statements**
H290 May be corrosive to metals.
 - **Precautionary statements**
P234 Keep only in original container.
P390 Absorb spillage to prevent material damage.
 - **Additional information:**
EUH208 Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.
 - **2.3 Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

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

• Dangerous components:

CAS: 67-63-0	propan-2-ol	3-7%
EINECS: 200-661-7	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	
Index number: 603-117-00-0		
Reg.nr.: 01-2119457558-25-XXXX		
CAS: 77-92-9	citric acid	1<3%
EINECS: 201-069-1	Eye Irrit. 2, H319	
Index number: 002-010-69-1		
Reg.nr.: 01-2119457026-42-XXXX		
CAS: 7647-01-0	hydrogen chloride	1<3%
EINECS: 231-595-7	Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318; STOT SE 3, H335	
Index number: 017-002-01-X		
Reg.nr.: 01-2119484862-27-xxxx		
CAS: 62-56-6	Thiourea	<1%
EINECS: 200-543-5	Carc. 2, H351; Repr. 2, H361d; Aquatic Chronic 2, H411; Acute Tox. 4, H302	
Index number: 612-082-00-0		
Reg.nr.: 01-2119977062-37-XXXX		
CAS: 55965-84-9	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one	<1%
Index number: 613-167-00-5	[EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	
	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Skin Sens. 1, H317	

• **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

• **Additional information:** For the wording of the listed hazard 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; consult doctor in case of complaints.

• After skin contact:

Rinse with warm water.

If skin irritation continues, consult a doctor.

• 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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

• Suitable extinguishing agents:

The product is not flammable.

Use fire extinguishing methods suitable to surrounding conditions.

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- **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 (CO₂)
Incomplete combustion may cause Carbon monoxide, toxic fumes and smouldering gases.
Chlorine oxides
Hydrogen chloride (HCl)
Nitrogen oxides (NO_x)
Sulphur oxides (SO_x)
- **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 clothing.
- **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** No special precautions are necessary if used correctly.
- **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.
Do not store together with alkalis (caustic solutions).
Store away from foodstuffs.
- **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.

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· 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/m³Long-term value: 1 mg/m³

· **DNELs**

67-63-0 propan-2-ol

Oral DNEL Langzeit, systemische Wirkung 26 mg/kg bw/d (general population)

Dermal DNEL Langzeit, systemische Wirkung 888 mg/kg bw/d (worker)

319 mg/kg bw/d (general population)

Inhalative DNEL Langzeit, systemische Wirkung 500 mg/m³ (worker)89 mg/m³ (general population)

7647-01-0 hydrogen chloride

Inhalative DNEL akut, lokale Wirkung 15 mg/m³ (worker)DNEL Langzeit, lokale Wirkung 8 mg/m³ (worker)

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/m³ (worker)0.2 mg/m³ (general population)

· **PNECs**

67-63-0 propan-2-ol

PNEC - Aquatic 2251 mg/l (sewage treatment plant)

140.9 mg/l (water (marine water))

140.9 mg/l (water (freshwater))

140.9 mg/l (water (intermittent releases))

PNEC -sediment 552 mg/kg dw (sediment marine water)

552 mg/kg dw (sediment freshwater)

PNEC - Soil 28 mg/kg dw (soil)

77-92-9 citric acid

PNEC - Aquatic 0.044 mg/l (water (marine water))

0.44 mg/l (water (freshwater))

PNEC - STP 1000 mg/l (sewage treatment plant)

PNEC -sediment 3.46 mg/kg dw (sediment marine water)

34.6 mg/kg dw (sediment freshwater)

PNEC - Soil 33.1 mg/kg dw (soil)

7647-01-0 hydrogen chloride

PNEC - Aquatic 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))

62-56-6 Thiourea

PNEC - Aquatic 0.001 mg/l (water (marine water))

0.01 mg/l (water (freshwater))

0.038 mg/l (water (intermittent releases))

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

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

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0.0725 mg/kg dw (water (freshwater))

PNEC - Soil 2.725 mg/kg dw (soil)

· **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.

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:** Not necessary at correctly use.

· **Protection of hands:**

Rubber gloves or plastic gloves recommended during refilling.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Material of gloves**

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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Goggles recommended during refilling

· **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:**

Form: Fluid

Colour: Clear

-

Light

Yellowish

· **Odour:**

Odourless

· **Odour threshold:**

Not determined.

· **pH-value at 20 °C:**

2.5

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 100 °C

· **Flash point:**

Not applicable.

· **Flammability (solid, gaseous):**

Not applicable.

· **Ignition temperature:**

Decomposition temperature: Not determined.

· **Self-igniting:**

Product is not selfigniting.

· **Danger of explosion:**

Product does not present an explosion hazard.

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- **Explosion limits:**
 - Lower:** Not determined.
 - Upper:** Not determined.
- **Vapour pressure at 20 °C:** 23 hPa
- **Density at 20 °C:** 1.02 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water:** Fully miscible.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:** fluid, watery
- **Dynamic:** Not determined.
- **Kinematic:** Not determined.
- **Solvent content:**
 - Organic solvents:** 3.0 %
 - VOC (EC)** 3.03 %
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
No dangerous reactions if handled and stored according to regulations and instructions.
Reacts with oxidising agents.
Reacts with alkali (lyes).
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Strong oxidizing agents
Concentrated alkali (lyes)
- **10.6 Hazardous decomposition products:**
None if used correctly.
Concerning decomposition products in the event of fire, see Chapter 5.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**

67-63-0 propan-2-ol

Oral LD 50 5840 mg/kg (rat) (OECD - Prüfrichtlinie 401)
 Dermal LD 50 > 12800 mg/kg (rabbit) (OECD Prüfrichtlinie 402)
 Inhalative LC 50 (6h) > 25 mg/l (rat) (OECD Prüfrichtlinie 403)

77-92-9 citric acid

Oral LD 50 11700 mg/kg (Ratte männlich) (OECD-RL 401)
 Dermal LD 50 >2000 mg/kg (rat)

7647-01-0 hydrogen chloride

Dermal LD 50 > 5010 mg/kg (rabbit)

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62-56-6 Thiourea

Dermal LD 50 > 2800 mg/kg (rabbit)

55965-84-9 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Oral LD 50 457 mg/kg (rat)

Dermal LD 50 660 mg/kg (rabbit)

Inhalative LC 50 (4h) 0.31 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

67-63-0 propan-2-ol

Oral NOAEL (Teratogenität) 400 mg/kg KG/Tag (rat) (OECD 414)

NOAEL (Reproduktionstoxizität) 500 mg/kg KG/Tag (Ratte (Eltern)) (OECD 415)

- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**

67-63-0 propan-2-ol

LC 50 (24h) 9714 mg/l (Daphnia magna) (OECD 202)

LC 50 (96h) 9640 mg/l (Pimephales promelas) (OECD 203)

LC 50 (48h) 8970 mg/l (Leuciscus idus)

EC 10 (18h) 5175 mg/l (Pseudomonas putida) (DIN 38412)

EC 50 (48h) 13299 mg/l (Daphnia magna)

62-56-6 Thiourea

LC 50 (96h) 10000 mg/l (Brachydanio rerio)

LC 50 (48h) > 10000 mg/l (Leuciscus idus)

EC 10 (18h) 1265 mg/l (Pseudomonas putida)

EC 50 (48h) 35 mg/l (Daphnie)

EC 50 (96h) 6.8 mg/l (Desmodesmus subspicatus)

55965-84-9 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

NOEC (21d) 0.1 mg/l (Daphnia magna)

LC 50 (96h) 0.19 mg/l (Oncorhynchus mykiss)

EC 50 (48h) 0.16 mg/l (Daphnia magna)

EC 50 (72h) 0.027 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

NOEC (14d) 0.05 mg/l (Oncorhynchus mykiss)

- **12.2 Persistence and degradability** No further relevant information available.
- **Biodegradability**

67-63-0 propan-2-ol

Biolog. Abbaubarkeit (21d) 95 % (OECD 301 E)

99.9 % (OECD 303 A)

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62-56-6 Thiourea

Biolog. Abbaubarkeit 0 % (OECD 301 C) ((34 d))
 3 % (OECD 301 E) ((28 d))

55965-84-9 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Biolog. Abbaubarkeit (10d):< 50 %

- **12.3 Bioaccumulative potential**

67-63-0 propan-2-ol

BCF 0.19 (Klu)

- **12.4 Mobility in soil** No further relevant information available.

- **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 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow product to reach ground water, water course or sewage system.

- **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 05* organic 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, IMDG, IATA**

UN1789

- **14.2 UN proper shipping name**

- **ADR**

UN1789 HYDROCHLORIC ACID solution

- **IMDG, IATA**

HYDROCHLORIC ACID solution

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

- **ADR**



- **Class** 8 (C1) Corrosive substances.
- **Label** 8

- **IMDG, IATA**



- **Class** 8 Corrosive substances.
- **Label** 8
- **14.4 Packing group**
- **ADR, IMDG, IATA** III
- **14.5 Environmental hazards:**
- **Marine pollutant:** No
- **14.6 Special precautions for user** Warning: Corrosive substances.
- **Danger code (Kemler):** 8
- **EMS Number:** F-A,S-B
- **Segregation groups** Acids
- **Stowage Category** E
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- **Transport/Additional information:**

- **ADR**

- **Limited quantities (LQ)** 5L
- **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
- **Transport category** 3
- **Tunnel restriction code** E
- **UN "Model Regulation":** UN 1789 HYDROCHLORIC ACID SOLUTION, 8, III

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.
- **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**

- H225 Highly flammable liquid and vapour.
- H290 May be corrosive to metals.
- H301 Toxic if swallowed.

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- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.
- H361d Suspected of damaging 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.

• **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

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 2: Acute toxicity – Category 2

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

• * **Data compared to the previous version altered.**