

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date: 20.12.2022

Version number 3 (replaces version 2)

Revision: 20.12.2022

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

· **1.1 Product identifier**

· **Trade name:** Gold plating bath GP 204, 5,0g Au/l  
Goldplattierbad GP 204, 5,0g Au/l

· **Article number:**

86902500 = 5,0g Au/l

81020417 = 5,0g Au/l, 1 l

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

Not approved for private consumers.

· **Application of the substance / the mixture** Galvanic bath

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Heimerle + Meule GmbH  
Dennigstrasse 16  
D-75179 Pforzheim

Telefon +49 (0) 7231 940-0  
Telefax +49 (0) 7231 940-2199  
www.heimerle-meule.com

· **Further information obtainable from:**

Abteilung BASU - Bau/Arbeitssicherheit/Umwelt  
Department BASU - Construction / Occupational Safety / Environment  
sds@heimerle-meule.com

IATA - 24h Emergency Contact - IATA - 24h Emergency Contact -  
(Dangerous goods emergency number)  
+49 172 739 6970

· **1.4 Emergency telephone number:**

DEUTSCHLAND - GERMANY:

Vergiftungs-Informationen-Zentrale Freiburg, ++49 761 19240 (24 h)  
(Poisoning Information Center)

GREAT BRITAIN:

National Poisons Information Service +44 121 507 4123

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111 - In Scotland: NHS 24 - dial 111

IRELAND

+353 1 809 2166 (7 Days 8 am -10 pm)

Healthcare Professionals: +353 1 809 2566

ITALY:

Istituto Superiore di Sanità (ISS) +3906499906140

Centro Antiveleni

Bergamo: +39 800 883300

Firenze +39 055 794 7819

Milano: +39 055 794 7819

Roma +39 06 68593726

Roma +39 06 49978000

Roma +39 06 3954343

KROATIA - REPUBLIKA HRVATSKA:

(+385) 01 2348 342

ESTLAND - ESTONIA:

Tervisemeti Mürgistusteabekeskuse

National (24/7): 16662

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(+372) 7943 794

LETTLAND - LATVIA:Valsts Toksikoloģijas centrs, Saindēšanās un zāļu informācijas centrs,  
(24h) 112

(24h) +371 67042473

LITAUEN - LIETUVOS RESPUBLIKA:

Poison Information Bureau (24/7), Tel.: +8 5 236 20 52

Apsinuodijimų informācijas biuras

## SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



skull and crossbones

Acute Tox. 3

H331 Toxic if inhaled.



health hazard

Carc. 1B

H350i May cause cancer by inhalation.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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



GHS06



GHS08



GHS09

- Signal word *Danger*
- Hazard-determining components of labelling:  
Potassium dicyanoaurate  
Cobalt acetate cristaline 23/24 % Co
- Hazard statements  
H331 Toxic if inhaled.  
H350i May cause cancer by inhalation.  
H411 Toxic to aquatic life with long lasting effects.

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· **Precautionary statements**

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

EUH208 Contains Potassium dicyanoaurate, Cobalt acetate cristaline 23/24 % Co. May produce an allergic reaction.  
 Restricted to professional users.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.  
 · **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

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

· **Dangerous components / Information on ingredients:**

CAS: 77-92-9 EINECS: 201-069-1 Index number: 607-750-00-3 RTECS: GE 7350000	citric acid; 1,2,3-Propanetricarboxylic acid, 2-hydroxy-; 2-Hydroxy-1,2,3-propanetricarboxylic acid; Citronensäure ⚠ Eye Irrit. 2, H319; STOT SE 3, H335	1-2.5%
CAS: 13967-50-5 EINECS: 237-748-4 Reg.nr.: 01-2120130777-52	Potassium dicyanoaurate ⚠ Acute Tox. 2, H300; Acute Tox. 2, H330 ⚠ Met. Corr. 1, H290; Eye Dam. 1, H318 ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410 ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	0.5-<1%
CAS: 6147-53-1 EINECS: 200-755-8 Index number: 027-006-00-6	Cobalt acetate cristaline 23/24 % Co; cobalt di(acetate); cobalt acetate; cobalt(II) acetate tetrahydrate ⚠ Resp. Sens. 1, H334; Muta. 2, H341; Carc. 1B, H350i; Repr. 1B, H360F ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10) ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317 Specific concentration limit: Carc. 1B; H350: C ≥ 0.01 %	0.1-<0.25%

· **SVHC**

CAS: 6147-53-1 | Cobalt acetate cristaline 23/24 % Co

· **Additional information:**

The potassium goldcyanide -  $K[Au(CN)_2]$  -, which is used at the preparation, has a strong complexity and is also very strong pH- buffert.

A release of the cyanide containing ( a formation of very poisoning hydrocyanic acid ) is only possible by addition of a big quantity of concentrated acids.

For the wording of the listed hazard phrases refer to section 16.

GB

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### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

##### · **General information:**

*Personal protection for the First Aider.*

*Take affected persons out of danger area and lay down.*

*Involve doctor immediately after a accident or unwell*

· **After inhalation:** *Supply fresh air; consult doctor in case of complaints.*

· **After skin contact:** *If skin irritation continues, consult a doctor.*

· **After eye contact:** *Rinse opened eye for several minutes under running water.*

##### · **After swallowing:**

*Call a doctor immediately.*

*Drink plenty of water and provide fresh air. Call for a doctor immediately.*

*A person vomiting while laying on their back should be turned onto their side.*

*Rinse out mouth and then drink plenty of water.*

#### · 4.2 Most important symptoms and effects, both acute and delayed

*Cyanides poisoning*

*Cyanosis*

#### · 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:**

*CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*

· **For safety reasons unsuitable extinguishing agents:** *Water with full jet*

#### · 5.2 Special hazards arising from the substance or mixture

*Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:*

*Hydrogen cyanide (HCN)*

#### · 5.3 Advice for firefighters

##### · **Protective equipment:**

*Mount respiratory protective device.*



*Wear self-contained respiratory protective device.*

##### · **Additional information**

*Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.*

### SECTION 6: Accidental release measures

#### · 6.1 Personal precautions, protective equipment and emergency procedures

*Mount respiratory protective device.*

*Wear protective equipment. Keep unprotected persons away.*

*Use respiratory protective device against the effects of fumes/dust/aerosol.*

*Only handle and refill product in closed systems.*

#### · 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.*

*Dilute with plenty of water.*

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Do not allow to enter sewers/ surface or ground water.

· **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.

Ensure adequate ventilation.

· **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**

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

The usual precautionary measures are to be adhered to when handling chemicals.

Prevent formation of aerosols.

Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.

Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.

· **Information about fire - and explosion protection:** Keep respiratory protective device available.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Observe official regulations on storing packagings .

Observe official regulations on storing packagings .

Prevent any seepage into the ground.

· **Information about storage in one common storage facility:**

Do not store together with acids.

Store away from foodstuffs.

· **Further information about storage conditions:**

Keep container tightly sealed.



Store under lock and key and with access restricted to technical experts or their assistants only.

Store under lock and key and out of the reach of children.

· **Storage class:** 6.1 D

· **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

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

**CAS: 13967-50-5 Potassium dicyanoaurate**

WEL (Great Britain)	Long-term value: 5 mg/m <sup>3</sup> as CN; Sk
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MAK (Germany)	Long-term value: 2E mg/m <sup>3</sup> als CN
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- **Regulatory information**

WEL (Great Britain): EH40/2020

MAK (Germany): MAK- und BAT-Liste

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

- **8.2 Exposure controls**

- **Appropriate engineering controls** No further data; see item 7.

- **Individual protection measures, such as personal protective equipment**

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

According to EC Directive 89/686/EEC

- **Respiratory protection:**

Not necessary if room is well-ventilated.

Use suitable respiratory protective device when high concentrations are present.

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.

Beware: Filter masks provide protection for a short period of time only. They should only be used in exceptional cases, that is if a small amount of the substance has spilled out or in order to fight spillages and fire.

according to EN 14387

according to EN 143

- **Recommended filter device for short term use:** Combination filter B-P3

- **Hand protection**

Acid resistant gloves

Check protective gloves prior to each use for their proper condition.



Protective gloves

according to EN 374

To avoid skin problems reduce the wearing of gloves to the required minimum.

Only use chemical-protective gloves with CE-labelling of category III.

Sensibilisation by the components in the glove materials is possible.

Check the permeability prior to each renewed use of the glove.

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Prior to working with gloves the rubbing in with tanniferous skin-protecting agents for the avoidance of skin softening due to perspiration is recommended.

- **Material of gloves**

Chloroprene rubber, CR

Recommended thickness of the material:  $\geq 0.65$  mm

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.65$  mm

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· **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.

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 3).

Value for the permeation: Level  $\leq 3$

· **Not suitable are gloves made of the following materials:**

Leather gloves

Strong material gloves

· **Eye/face protection**



Tightly sealed goggles

according to EN 166

· **Body protection:** Protective work clothing

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Fluid

· **Colour:**

Red-brown

· **Odour:**

Fruit-like

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

100°C (212°F)

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

Not applicable.

· **Decomposition temperature:**

Not determined.

· **pH at 20°C (68°F)**

4

· **Viscosity:**

· **Kinematic viscosity**

Not determined.

· **Dynamic:**

Not determined.

· **Solubility**

· **water:**

Fully miscible.

· **Partition coefficient n-octanol/water (log value)**

Not determined.

· **Vapour pressure:**

Not determined.

· **Density and/or relative density**

· **Density at 20°C (68°F):**

1.08 g/cm<sup>3</sup> (9.01 lbs/gal)

· **Relative density**

Not determined.

· **Vapour density**

Not determined.

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- **9.2 Other information**
- **Appearance:**
- **Form:** Fluid
- **Important information on protection of health and environment, and on safety.**
- **Auto-ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Change in condition**
- **Evaporation rate** Not determined.

- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Void
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** Void

### 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 according to specifications.
- **10.3 Possibility of hazardous reactions**  
Contact with acids releases very toxic gases  
Reacts with acids, alkalis and oxidising agents.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Acids
- **10.6 Hazardous decomposition products:** Hydrogen cyanide (prussic acid)

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Toxic if inhaled.

· **LD/LC50 values relevant for classification:**

**ATE (Acute Toxicity Estimates)**

Oral	LD50	3,973 mg/kg (Rat)
Inhalative	LC50/4 h	6.85 mg/l

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**CAS: 77-92-9 citric acid**

Oral	LD50	6,730 mg/kg (rat)
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**CAS: 13967-50-5 Potassium dicyanoaurate**

Oral	LD50	29 mg/kg (Rat)
Inhalative	LC50/4 h	0.05 mg/l /(ATE) (rat)

**CAS: 6147-53-1 Cobalt acetate cristaline 23/24 % Co**

Oral	LD50	503 mg/kg (rat)
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Food and Chemical Toxicology. Vol. 20, Pg. 311, 1982.

- **Carcinogenicity** May cause cancer by inhalation.

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

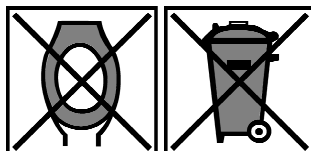
None of the ingredients is listed.

## SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment** Not applicable.
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**  
-  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**



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

Contact manufacturer for recycling information.

- **Waste disposal key:**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

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- **Uncleaned packaging:**
- **Recommendation:**  
Disposal must be made according to official regulations.  
Packaging which is uncleaned or soiled with product remains is to be treated like the product itself  
Packaging free of product remains is to be supplied refuse for recycling. Only if no adequate collecting system is available, they may be disposed of through the domestic rubbish
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA**

UN1935

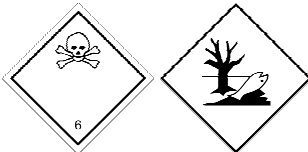
- **14.2 UN proper shipping name**
- **ADR**

UN1935 CYANIDE SOLUTION, N.O.S. (Potassium dicyanoaurate), ENVIRONMENTALLY HAZARDOUS  
CYANIDE SOLUTION, N.O.S. (Potassium dicyanoaurate)

- **IMDG, IATA**

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

- **ADR**



- **Class**
- **Label**

6.1 Toxic substances.  
6.1

- **IMDG, IATA**



- **Class**
- **Label**

6.1 Toxic substances.  
6.1

- **14.4 Packing group**
- **ADR, IMDG, IATA**

III

- **14.5 Environmental hazards:**

- **Marine pollutant:**

No

- **Special marking (ADR):**

Symbol (fish and tree)

- **14.6 Special precautions for user**
- **Hazard identification number (Kemler code):**
- **EMS Number:**
- **Segregation groups**
- **Stowage Category**
- **Stowage Code**
- **Segregation Code**

Warning: Toxic substances.

60

F-A,S-A

(SGG6) Cyanides

A

SW2 Clear of living quarters.

SG35 Stow "separated from" SGG1-acids

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· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Transport category</b>	2
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>IATA</b>	
· <b>Remarks:</b>	24h emergency contact - (Dangerous goods emergency number)  +49 172 739 6970
· <b>UN "Model Regulation":</b>	UN 1935 CYANIDE SOLUTION, N.O.S. (POTASSIUM DICYANOAUATE), 6.1, III, ENVIRONMENTALLY HAZARDOUS

## SECTION 15: Regulatory information

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

COUNCIL DIRECTIVE 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC)

DIRECTIVE 2012/18/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC

· <b>GADSL - Global Automotive Declarable Substance List</b>
--

None of the ingredients is listed.
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· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

· **National regulations:**

· **Additional classification according to Decree on Hazardous Materials, Annex II:**  
Carcinogenic hazardous material group III (dangerous).

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.  
Employment restrictions concerning juveniles must be observed.

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*Employment restrictions concerning pregnant and lactating women must be observed.*  
*Employment restrictions concerning women of child-bearing age must be observed.*

· **Waterhazard class:** .

· **Other regulations, limitations and prohibitive regulations -**

· **Substances of very high concern (SVHC) according to UK REACH**

CAS: 6147-53-1	Cobalt acetate cristaline 23/24 % Co
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· **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.*

· **Reasons for revise**

*If necessary, this safety data sheet can be revised according to legal guidelines.*

*Our current version for your reference is available on our website  
[www.heimerle-meule.com](http://www.heimerle-meule.com)*

· **Relevant phrases**

H290 *May be corrosive to metals.*

H300 *Fatal if swallowed.*

H302 *Harmful if swallowed.*

H315 *Causes skin irritation.*

H317 *May cause an allergic skin reaction.*

H318 *Causes serious eye damage.*

H319 *Causes serious eye irritation.*

H330 *Fatal if inhaled.*

H334 *May cause allergy or asthma symptoms or breathing difficulties if inhaled.*

H335 *May cause respiratory irritation.*

H341 *Suspected of causing genetic defects.*

H350i *May cause cancer by inhalation.*

H360F *May damage fertility.*

H400 *Very toxic to aquatic life.*

H410 *Very toxic to aquatic life with long lasting effects.*

· **Department issuing SDS:**

*Abteilung BASU - Bau/Arbeitssicherheit/Umwelt*

*Department BASU - Construction / Occupational Safety / Environment*

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· **Abbreviations and acronyms:**

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)*

*ICAO: International Civil Aviation Organisation*

*ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)*

*AwSV: Ordinance on facilities for handling water-polluting substances (German regulation).*

*TRGS: Technical rules for hazardous substances (German regulation)*

*ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)*

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**Safety data sheet**  
according to 1907/2006/EC, Article 31

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**Trade name: Gold plating bath GP 204, 5,0g Au/l**  
**Goldplattierbad GP 204, 5,0g Au/l**

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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)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Met. Corr. 1: Corrosive to metals – Category 1  
 Acute Tox. 2: Acute toxicity – Category 2  
 Acute Tox. 4: Acute toxicity – Category 4  
 Acute Tox. 3: Acute toxicity – Category 3  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 Resp. Sens. 1: Respiratory sensitisation – Category 1  
 Skin Sens. 1: Skin sensitisation – Category 1  
 Muta. 2: Germ cell mutagenicity – Category 2  
 Carc. 1B: Carcinogenicity – Category 1B  
 Repr. 1B: Reproductive toxicity – Category 1B  
 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.**

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