Trade name: Gold Plating Bath JE250 - 5 g/L Au

Substance number: 7252.0000

Version: Draft / Replaces Version: 1 / WORLD Date revised Print date: 23.06.2025

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

### 1.1. Product identifier

Gold Plating Bath JE250 - 5 g/L Au

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

### Use of the substance/preparation

Galvanic Bath, do not use for private purposes, Food, beverages and animal feed.

#### **Identified Uses**

PC14

Metal surface treatment products, including galvanic and electroplating products

### 1.3. Details of the supplier of the safety data sheet

#### Address/Manufacturer

Jentner Plating Technology GmbH Johann-Staib-Straße 2 75179 Pforzheim Telephone no. +49 (0)7231/4180940 Information provided Laboratory department; Opening hours 8:00-16:00 by / telephone E-mail address of sales@jentner.de person responsible for this SDS

### 1.4. Emergency telephone number

Poisoning Information Center Freiburg: +49(0)761/19240

### SECTION 2: Hazards identification \*\*\*

### 2.1. Classification of the substance or mixture

### Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Skin Corr. 1B		H314
Eye Dam. 1		H318
Carc. 1B		H350i
Aquatic Chronic	3	H412
· · · · · · · · · · · · · · · · · · ·		

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008 For explanation of abbreviations see section 16.

### 2.2. Label elements

### Labelling according to regulation (EC) No 1272/2008

Hazard pictograms \*\*\*



Danger Hazard statements \*\*\*

H314

Causes severe skin burns and eye damage.

	JE250 - 5 g/L Au	
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H350i	May cause cancer by inhalation.	
H412	Harmful to aquatic life with long lasting effects.	
Precautionary statem	ients ***	
P273 P280 P304+P340 P305+P351+P338 P310 P501.1	Avoid release to the environment. Wear protective gloves/protective clothing/eye protective IF INHALED: Remove person to fresh air and keep co IF IN EYES: Rinse cautiously with water for several m lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. Dispose of contents/container to industrial incineration	mfortable for breathing. inutes. Remove contact plant.
	nt(s) to be indicated on label (Regulation (EC) N	lo. 1272/2008)
	potassium hydroxide; Cobalt sulphate, heptahydrate Cobalt sulphate, heptahydrate, Potassium gold-I-cyan produce an allergic reaction.	id (68,2% Au), May

### 2.3. Other hazards

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

### SECTION 3: Composition/information on ingredients \*\*\*

### Hazardous ingredients \*\*\*

Concentration	0.	te 5949-29-1 201-069-1 01-2119457026-42 >= 1 tion (EC) No. 1272/2 Eye Irrit. 2 STOT SE 3		< H319 H335	10	%
potassium hyd	rovido					
CAS No.	IUNIUE	1310-58-3				
EINECS no.		215-181-3				
	0	01-2119487136-33	2			
Concentration		>= 2	5	<	2,5	%
		tion (EC) No. 1272/2	2008)		2,0	70
Classification	(i togula	Acute Tox. 4	2000)	H302		
		Skin Corr. 1A				
				H314		
		Met. Corr. 1		H290		
Concentration	limits (F	Regulation (EC) No.	1272/2	2008)		
		Eye Irrit. 2	H319	>= (	0,5 < 2 %	
		Skin Corr. 1A	H314	>= {	5 %	
		Skin Corr. 1B				
		Skin Irrit. 2			0,5 < 2 %	
ATE	oral			333	mg/k	a
	e, ai			200		.9

rade name: Gold Plating Bath					
	Version:	Draft /			Date revise
ubstance number: 7252.0000	Replaces	s Version	1 / WO	RLD	Print date: 23.06.202
Potassium gold-l-cya	ınid (68,2% Au)				
CAS No.	13967-50-5				
EINECS no.	237-748-4				
Registration no.	01-2120130777-52				
Concentration	>= 0,25	<	0,95	%	
Classification (Regu	ation (EC) No. 1272/2008)				
	Met. Corr. 1	H290			
	Skin Irrit. 2	H315			
	Eye Dam. 1	H318			
	Aquatic Chronic 1	H410			
	Acute Tox. 2	H300			
	Acute Tox. 2	H330			
	Aquatic Acute 1	H400			
	Skin Sens. 1	H317			
ATE ora		29	mg		
cATpE inha	alative, Dust/Mist	0,05	mg	/I	
Cobalt sulphate, hep	tahydrate				
CAS No.	10026-24-1				
EINECS no.	233-334-2				
Concentration	>= 0,1	<	0,25	%	
Classification (Regu	ation (EC) No. 1272/2008)				
	Acute Tox. 4	H302			
	Resp. Sens. 1	H334			
	Skin Sens. 1	H317			
	Muta. 2	H341			
	Carc. 1B	H350i			
	Repr. 1B	H360F			
	Aquatic Acute 1	H400			
	Aquatic Chronic 1	H410			

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

### **General information**

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

### After inhalation

Ensure supply of fresh air. Remove affected person from danger area. Seek medical advice immediately.

#### After skin contact

Wash off immediately with soap and water. Seek medical advice immediately.

#### After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

#### After ingestion

Call in a physician immediately and show him the Safety Data Sheet. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

### Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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**4.2. Most important symptoms and effects, both acute and delayed** Until now no symptoms known so far.

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

### Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

### SECTION 5: Firefighting measures

### 5.1. Extinguishing media

### Suitable extinguishing media

Dry powder

### Non suitable extinguishing media

Full water jet

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

In case of combustion evolution of dangerous gases possible.

### 5.3. Advice for firefighters

### Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

### Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Observe manufacturer's / distributor`s instructions.

### SECTION 6: Accidental release measures

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

Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8.

### 6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### 6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of absorbed material in accordance with the regulations.

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

### Advice on safe handling

Avoid formation of aerosols. Perform filling operations only at stations with exhaust ventilation facilities. Provide suitable exhaust ventilation at the processing machines. If workplace limits are exceeded, a

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respiratory protection approved for this particular job must be worn. Keep container tightly closed.

### 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

### Hints on storage assembly

Do not store together with foodstuffs.

#### Storage classes

Substance number: 7252.0000

Storage class according to TRGS 510 6.1D

Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects

### Further information on storage conditions

Keep under lock and key or accessible only to specialists or people who are authorized.

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### Other information

Contains no substances with occupational exposure limit values.

### Derived No/Minimal Effect Levels (DNEL/DMEL)

Derived No Effect Level (DNEL) Worker inhalative Local effects = 1	mg/m³
ζ Διι)	
Derived No Effect Level (DNEL) dermal Chronic effects = 0,1	mg/kg
Derived No Effect Level (DNEL) inhalative Chronic effects = 0,071	mg/m³
Derived No Effect Level (DNEL) General Population inhalative Local effects = 0,105	mg/m³
ation (PNEC)	
Au) PNEC Freshwater = 0.2	µg/l
	Worker inhalative Local effects = 1 <b>Au)</b> Derived No Effect Level (DNEL) dermal Chronic effects = 0,1 Derived No Effect Level (DNEL) inhalative Chronic effects = 0,071 Derived No Effect Level (DNEL) General Population inhalative Local effects = 0,105 <b>ation (PNEC)</b> <b>Au)</b> PNEC Freshwater

### Safety data sheet in accordance with regulation (EC) No 1907/2006



Trade name: Gold Plating Bath JE250 - 5	-	<b>.</b>
Out-to-read number 7050 0000	Version: Draft /	Date revised
Substance number: 7252.0000	Replaces Version: 1 / WORLD	Print date: 23.06.2025
Type of value	PNEC	
Туре	Freshwater sediment	
Concentration	= 0,33	mg/kg
Concentration	- 0,33	ilig/kg
Type of value	PNEC	
Туре	Water (intermittent release)	
Concentration	= 2	μg/l
Type of value	PNEC	
Туре	Sewage treatment plant (STP)	
Concentration	= 6	mg/l
Type of value	PNEC	
Туре	Soil	
Concentration	= 0,067	mg/kg
	0,001	
Type of value	PNEC	
Туре	Saltwater	
Concentration	= 0,02	µg/l
Type of value	PNEC	
Туре	Marine sediment	
Concentration	= 0,033	mg/kg
Cabalt autobata bantabudrata		
Cobalt sulphate, heptahydrate	DUEO	
Type of value	PNEC	
Туре	Water	
Concentration	= 500	mg/m³
Type of value	PNEC	
Type	Saltwater	
Concentration		m a /m <sup>3</sup>
Concentration	= 2400	mg/m³
Type of value	PNEC	
Туре	Sediment	
Concentration	= 11000	mg/m³
Concentration	- 11000	ilig/ili
Type of value	PNEC	
Туре	Marine sediment	
Concentration	= 9500	mg/m³
Town of the last		
Type of value	PNEC	
Туре	Soil	
Concentration	= 7900	mg/m³
Type of value	PNEC	
Туре	Sewage treatment plant (STP)	
Concentration		malm <sup>3</sup>
Concentration	= 400	mg/m³

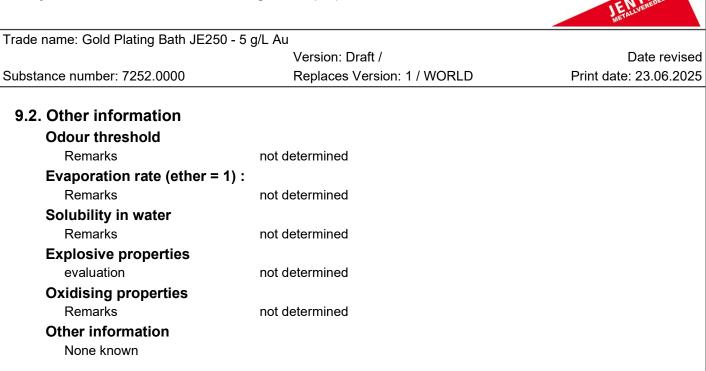
### 8.2. Exposure controls

#### General protective and hygiene measures

Hold emergency shower available. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Safety data sheet in accordance v	vith regulation (EC) N	o 1907/2006		JENTNE Entrance
rade name: Gold Plating Bath JE25	0 - 5 g/L Au			
-	Version: D	raft /		Date revis
ubstance number: 7252.0000	Replaces '	Version: 1 / WOF	RLD	Print date: 23.06.20
Respiratory protection				
If workplace limits are exce	eeded, a respiratory pro	otection approved	d for this partic	cular job must be worn.
Hand protection				
Chemical resistant gloves				
Appropriate Material	neoprene			
Eye protection				
Safety glasses with side p	rotection shield; Face s	hield		
Body protection				
Clothing as usual in the ch	emical industry. Protec	tive shoes		
SECTION 9: Physical an	d chemical pro	<u>perties</u>		
9.1. Information on basic p	hysical and chemi	cal propertie	s	
Physical state	liquid			
Colour	pink			
Odour	odourless			
Melting point				
Remarks	not determined			
Freezing point				
Remarks	not determined			
Boiling point or initial bo Remarks	iling point and boili not determined	ng range		
	not determined			
Flammability evaluation	not determined			
Upper and lower explosiv				
Remarks	not determined			
Flash point	<b>N 1 1 1</b>			
Remarks	Not applicable			
Ignition temperature				
Remarks	not determined			
Decomposition temperat				
Remarks	not determined			
pH value				
Value	= 3,8	to 4,2		
Viscosity				
Remarks	not determined			
Solubility(ies)				
Remarks	not determined			
Partition coefficient n-oc	tanol/water (log valu	le)		
Remarks	not determined			
Vapour pressure				
Remarks	not determined			
Density and/or relative de	-			
Value	= 1,030	to 1,040	g/ml	
Relative vapour density				
Remarks	not determined			

### Safety data sheet in accordance with regulation (EC) No 1907/2006



### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

### 10.2. Chemical stability

No hazardous reactions known.

#### **10.3. Possibility of hazardous reactions** No hazardous reactions known.

### 10.4. Conditions to avoid

No hazardous reactions known.

### 10.5. Incompatible materials

None known

### 10.6. Hazardous decomposition products

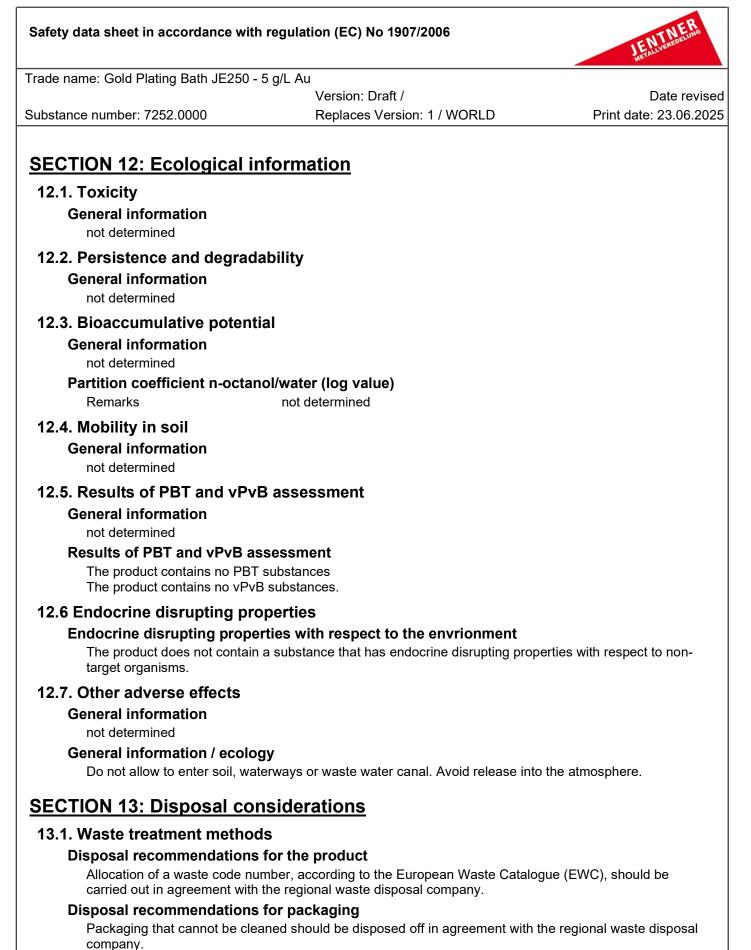
Toxic gases/vapours, Irritant gases/vapours

### **SECTION 11: Toxicological information**

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity			
ATE		3.196,74	mg/kg
Method	calculat	ted value (Regulation (EC) No.	1272/2008)
Acute oral toxicity (Compor	nents)		
potassium hydroxide			
Species	rat		
LD50		333	mg/kg
Potassium gold-I-cyanid (68,	2% Au)		
Species	rat		
LD50	=	29	mg/kg
Cobalt sulphate, heptahydrat	te		
Species	rat		
LD50	=	582	mg/kg
Acute dermal toxicity			

					METALIVER
Trade name: Gold Plating Bath JE250	- 5 g/L				
Substance number: 7252.0000		Version: Replace:	Draft / s Version: 1	/ WORLD	Date revise Print date: 23.06.202
Remarks	Base	d on availab	le data. the	classification criteria	are not met.
Acute dermal toxicity (Con			,		
Potassium gold-I-cyanid (68	.2% Aι	1)			
Species LD50	guine =	· .		mg/kg	
Acute inhalational toxicity					
ATE		6,8213		mg/l	
Administration/Form Method	Dust/		Pogulation (	(EC) No. 1272/2008)	
Remarks				classification criteria	are not met.
Acute inhalative toxicity (0			,		
Potassium gold-l-cyanid (68	-	•			
Species	rat				
LC50	=	0,05	h	mg/l	
Duration of exposure		4	h		
Skin corrosion/irritation evaluation	oorro	oiv.o			
Remarks	corro The c	sive classification	criteria are	met	
Serious eye damage/irritat		haddineation		inot.	
evaluation	corro	sive			
Remarks		classification	criteria are	met.	
Sensitization					
Remarks	Base	d on availab	le data, the	classification criteria	are not met.
Subacute, subchronic, chr	onic te	oxicity			
Remarks	not d	etermined			
Mutagenicity					
Remarks	Base	d on availab	le data, the	classification criteria	are not met.
Reproductive toxicity					
Remarks	Base	d on availab	le data, the	classification criteria	are not met.
Carcinogenicity					
evaluation		cause cance			
Remarks		classification	criteria are	met.	
Specific Target Organ Tox	icity (S	510T)			
Single exposure	-				
Remarks	Base	d on availab	le data, the	classification criteria a	are not met.
<b>Repeated exposure</b> Remarks	Base	d on availab	le data, the	classification criteria a	are not met.
Aspiration hazard					
Based on available data, the	e classi	fication criter	ia are not m	et.	
11.2 Information on other ha	zards				
Endocrine disrupting prop			ct to huma	ans	
The product does not contain humans.		-			es with respect to
Experience in practice					
Inhalation may lead to irritat	ion of th	ne respirator	y tract.		
Other information		1			
No toxicological data are av	ailable				



SECTION 14: Transport information \*\*\*

### Safety data sheet in accordance with regulation (EC) No 1907/2006



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	Land transport ADR/RID	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA
14.1. UN number or ID number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.
14.2. UN proper shipping name		-	-
14.3. Transport hazard class(es)		-	-
Label			
14.4. Packing group		-	-

### **SECTION 15: Regulatory information**

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

### Other information

The product does not contain substances according to: Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

### 15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

### **SECTION 16: Other information**

## Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification (Regulation (EC) No. 1272/2008)

Sk	kin Corr. 1B	H314	Calculation method
Ey	/e Dam. 1	H318	Calculation method
Ca	arc. 1B	H350i	Calculation method
Ac	uatic Chronic 3	H412	Calculation method

### Hazard statements listed in Chapter 2/3

H290	May be corrosive to metals.
H300	Fatal if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
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.

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H410	Very toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
CLP categories listed in	Chapter 2/3	
Acute Tox, 2	Acute toxicity, Category 2	
Acute Tox. 4	Acute toxicity, Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1	
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, C	
Carc. 1B	Carcinogenicity, Category 1B	
Eye Dam. 1	Serious eye damage, Category 1	
Eye Irrit. 2	Eye irritation, Category 2	
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1	
Muta. 2	Germ cell mutagenicity, Category 2	
Repr. 1B	Reproductive toxicity, Category 1B	
Resp. Sens. 1	Respiratory sensitization, Category 1	
Skin Corr. 1A	Skin corrosion, Category 1A	
Skin Corr. 1B	Skin corrosion, Category 1B	
Skin Irrit. 2	Skin irritation, Category 2	
Skin Sens. 1	Skin sensitization, Category 1	
STOT SE 3	Specific target organ toxicity - single exposure, C	ategory 3

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\* This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.