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

1.1. Product identifier

Colour Gold Bath JE340 - red - 1 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, or 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, DE

Telephone no.	+49 (0) 7231 4180940
Information provided by / telephone	Laboratory department; Opening hours 8:00-16:00
E-mail address of person responsible for this SDS	sales@jentner.de

1.4. Emergency telephone number

Emergency: +44 1865 407333 Transport code: JENTNERPLATINGTECH-29003

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

EUH208 Contains	Potassium dicyanoaurat(I) , May produce an allergic reaction.

Supplemental information

EUH210	Safety data sheet available on request.

2.3. Other hazards

Harmful in contact with skin and if swallowed.
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

Potassium dicyanoaurat(I)

CAS No.	13967-50-5			
EINECS no.	237-748-4			
Registration no.	01-2120130777-52			
Concentration	>= 0,1	< 0,25	%	
Classification (Regulation (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	oral	29	mg/kg	
cATpE	inhalative, Dust/Mist	0,05	mg/l	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of persistent symptoms consult doctor.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

In case of contact with skin wash off with warm water. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

After ingestion

Rinse out mouth and give plenty of water to drink.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Foam, Dry powder, Carbon dioxide, Water spray jet

5.3. Advice for firefighters

Special protective equipment for fire-fighting

In case of combustion use a suitable breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Clean contaminated floors and objects thoroughly, observing environmental regulations. Dispose of as prescribed.

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

Observe the usual precautions for handling chemicals.

Advice on protection against fire and explosion

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store product in closed containers.

Hints on storage assembly

Do not store together with foodstuffs.

Storage classes

Storage class according to TRGS 510	12	Non-combustible liquids

Further information on storage conditions

Keep container tightly closed and dry.

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)

Potassium dicyanoaurat(I)

Type of value	Derived No Effect Level (DNEL)		
Route of exposure	dermal		
Mode of action	Chronic effects		
Concentration	=	0,1	mg/kg

Type of value	Derived No Effect Level (DNEL)		
Route of exposure	inhalative		
Mode of action	Chronic effects		
Concentration	=	0,071	mg/m³

Predicted No Effect Concentration (PNEC)

Potassium dicyanoaurat(I)

Type of value	PNEC		
Type	Freshwater		
Concentration	=	0,2	µg/l

Type of value	PNEC		
Type	Freshwater sediment		
Concentration	=	0,33	mg/kg

Type of value	PNEC		
Type	Water (intermittent release)		
Concentration	=	2	µg/l

Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	=	6	mg/l

Type of value	PNEC		
Type	Soil		
Concentration	=	0,067	mg/kg

Type of value	PNEC		
Type	Saltwater		
Concentration	=	0,02	µg/l

Type of value	PNEC		
Type	Marine sediment		
Concentration	=	0,033	mg/kg

8.2. Exposure controls

General protective and hygiene measures

Observe the usual precautions for handling chemicals.

Respiratory protection

Not necessary, but do not inhale vapours. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

Hand protection

Gloves

Appropriate Material neoprene

Eye protection

Safety glasses

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state liquid

Colour colourless

Odour odourless

Melting point

Remarks not determined

Freezing point

Remarks not determined

Boiling point or initial boiling point and boiling range

Remarks not determined

Flammability

evaluation not determined

Upper and lower explosive limits

Remarks not determined

Flash point

Remarks Not applicable

Auto-ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

pH value

Value = 10,5 to 11,0

Viscosity

Remarks not determined

Solubility(ies)
Remarks not determined

Partition coefficient n-octanol/water (log value)
Remarks not determined

Vapour pressure
Remarks not determined

Density and/or relative density
Value = 1,035 to 1,040 g/ml

Relative vapour density
Remarks not determined

9.2. Other information

Odour threshold
Remarks not determined

Evaporation rate (ether = 1) :
Remarks not determined

Solubility in water
Remarks not determined

Explosive properties
evaluation not determined

Oxidising properties
Remarks not determined

Other information
None known

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

SECTION 11: Toxicological information

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

Acute oral toxicity

ATE	>	10.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

Acute oral toxicity (Components)

Potassium dicyanoaurat(I)

Species	rat		
LD50	=	29	mg/kg

Acute dermal toxicity

Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity (Components)

Potassium dicyanoaurat(I)

Species	guinea pig		
LD50	=	5	mg/kg

Acute inhalational toxicity

ATE	>	20	mg/l
Administration/Form	Dust/Mist		
Method	calculated value (Regulation (EC) No. 1272/2008)		
Remarks	Based on available data, the classification criteria are not met.		

Acute inhalative toxicity (Components)

Potassium dicyanoaurat(I)

Species	rat		
LC50	=	0,05	mg/l
Duration of exposure		4 h	

Skin corrosion/irritation

Remarks: Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Remarks: Based on available data, the classification criteria are not met.

Sensitization

Remarks: Based on available data, the classification criteria are not met.

Subacute, subchronic, chronic toxicity

Remarks: not determined

Mutagenicity

Remarks: Based on available data, the classification criteria are not met.

Reproductive toxicity

Remarks: Based on available data, the classification criteria are not met.

Carcinogenicity

Remarks: Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)

Single exposure

Remarks: Based on available data, the classification criteria are not met.

Repeated exposure
Remarks Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties with respect to humans

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Other information

No toxicological data are available.

SECTION 12: Ecological information

12.1. Toxicity

General information

not determined

12.2. Persistence and degradability

General information

not determined

12.3. Bioaccumulative potential

General information

not determined

Partition coefficient n-octanol/water (log value)
Remarks not determined

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

General information

not determined

Results of PBT and vPvB assessment

The product contains no PBT substances
The product contains no vPvB substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the envrionment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

General information

not determined

General information / ecology

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information

	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) with a content of >= 0.1% w/w.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Hazard statements listed in Chapter 2/3

H290	May be corrosive to metals.
H300	Fatal if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

Acute Tox. 2	Acute toxicity, Category 2
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1

Supplemental information

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.