



**Gold Bath 14ct JE270-1 for pen**

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H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P103 Read label before use.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P262 Do not get in eyes, on skin, or on clothing.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
 P321 Specific treatment (see 4.1 on this label).  
 P330 Rinse mouth.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P310 Immediately call a POISON CENTER/doctor.  
 P361+P364 Take off immediately all contaminated clothing and wash it before reuse.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 P391 Collect spillage.  
 P405 Store locked up.  
 P501 Dispose of contents/container to an officially registered waste disposal company.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
-	salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex			max. 3%
	-	006-007-00-5		
	Acute Tox. 1, Acute Tox. 2, Acute Tox. 2, Aquatic Acute 1, Aquatic Chronic 1; H310 H330 H300 H400 H410 EUH032			

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection!

The following first aid and treatment recommendations should already be available to all first responders and doctors, before the work with cyanides. It can be used for First Aid performance. Act quickly and keep calm.

Self-respect. Remove soiled or soaked clothing immediately and dispose safely. Leave the danger area.

Possible signs of poisoning: headache, dizziness, drowsiness, nausea, convulsions, unconsciousness, respiratory disorders, respiratory arrest, cardiac arrest. dispose of safely. Concerned from the danger area.

Possible signs of poisoning: headache, dizziness, drowsiness, nausea, convulsions, unconsciousness, respiratory disorders, respiratory arrest, cardiac arrest.

**After inhalation**

Move victim to fresh air. Put victim at rest and keep warm. Do not leave affected person unattended. After

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inhaling vapours, first symptoms of poisoning may develop hours later, so always consult a doctor.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Put victim at rest, cover with a blanket and keep warm. Do not leave affected person unattended. In case of breathing difficulties administer oxygen. If victim is at risk of losing consciousness, position and transport on their side.

**After contact with eyes**

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

**After ingestion**

No direct artificial respiration to be given by first aider. Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

after ingestion: Headaches and dizziness may occur, proceeding to fainting or unconsciousness; large doses may result in coma and death.

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

Treatment as for cyanide poisoning. Attend attached additional text note. Eye Contact: Therapy as alkali burn.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Extinguishing powder.  
Foam.

**Unsuitable extinguishing media**

Extinguishing media which must not be used for safety reasons: Water spray. Carbon dioxide (CO<sub>2</sub>).

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

Potassium oxide; Nitrogen oxides; Hydrogen cyanide, cyanogen. Decomposition begins at 200 ° C

**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

The product itself does not burn. Do not allow water used to extinguish fire to enter drains or waterways.

Provide adequate fire-fighting water retention. Contaminated fire-fighting water must be disposed of according to local regulations. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment as required.

**6.2. Environmental precautions**

Do not empty into drains; dispose of this material and its container in a safe way.

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

Take up mechanically, placing in appropriate containers for disposal.

Retain contaminated washing water and dispose it.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

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**Advice on safe handling**

When using do not eat, drink, smoke, sniff.  
The product should be handled only by trained personnel.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep locked up and out of the reach of children.  
Keep only in the original container in a cool, well-ventilated place away from acids.  
Kept under lock and key so that only skilled persons have access.

**Hints on joint storage**

Do not store together with: Acid.

**Further information on storage conditions**

Store in a place accessible by authorized persons only.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

**8.2. Exposure controls****Appropriate engineering controls**

Additional information on plant design: Ensure suitable suction / aeration at the workplace or on the machines.

**Protective and hygiene measures**

Do not eat, drink, smoke or sneeze at the workplace.  
Wash hands before breaks and after work.

**Hand protection**

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Thorough skin-cleansing after handling the product. After cleaning apply high-fat content skin care cream.

**Skin protection**

Use personal protection equipment.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	liquid	
Colour:	clear	
Odour:	none	
pH-Value (at 20 °C):		8-9

**Changes in the physical state**

Initial boiling point and boiling range:	ca. 100 °C
Sublimation point:	not determined
Thermal decomposition:	=>200 °C

**Explosive properties**

not explosive.

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**Oxidizing properties**

Not oxidising.

Density (at 20 °C):

1,04 g/cm<sup>3</sup>

Water solubility:

unlimited

**Solubility in other solvents**

not determined

Vapour density:

not determined

Evaporation rate:

not determined

Solvent separation test:

not applicable

**SECTION 10: Stability and reactivity****10.1. Reactivity**

There are no data available on the mixture itself.

**10.3. Possibility of hazardous reactions**

Contact with acids releases toxic gases.

**10.4. Conditions to avoid**

Acid, concentrated.

**10.5. Incompatible materials**

Contact with acids liberates very toxic gas.

**10.6. Hazardous decomposition products**

Hydrocyanic acid (hydrocyanic acid). Ammonia.

**Further information**

Absorbs carbon dioxide from the air, forming hydrogen cyanide

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

Fatal if swallowed.

Toxic in contact with skin or if inhaled.

**ATEmix calculated**

ATE (oral) 166,7 mg/kg; ATE (dermal) 166,7 mg/kg; ATE (inhalation vapour) 16,67 mg/l; ATE (inhalation aerosol) 1,667 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
-	salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex				
	oral	ATE 5 mg/kg			
	dermal	ATE 5 mg/kg			
	inhalation vapour	ATE 0,5 mg/l			
	inhalation aerosol	ATE 0,05 mg/l			

**Irritation and corrosivity**

irritant.

**Sensitising effects**

No information available.

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**STOT-single exposure**

No information available.

**STOT-repeated exposure**

No information available.

**Specific effects in experiment on an animal**

LD50 oral , Ratte: 25&lt; LD50 =&lt;200 mg/kg

The statement is derived from the properties of the single components.

**SECTION 12: Ecological information****12.1. Toxicity**

Cyanide poisons are strong for all living things.

**12.2. Persistence and degradability**

There are no data available on the mixture itself.

**12.3. Bioaccumulative potential**

not determined

**12.4. Mobility in soil**

If product enters soil, it will be mobile and may contaminate groundwater.

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

Part of the components is biodegradable.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

Refer to manufacturer or supplier for information on recovery or recycling.

**Waste disposal number of waste from residues/unused products**

110198 WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY; wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising); other wastes containing hazardous substances; hazardous waste

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

Non-contaminated packages may be recycled.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.1. UN number:**

UN 1935

**14.2. UN proper shipping name:**

CYANIDE SOLUTION, N.O.S. (Potassium dicyanoaurate(I))

**14.3. Transport hazard class(es):**

6.1

**14.4. Packing group:**

II

Hazard label:

6.1



Classification code:

T4

Special Provisions:

274 525

Limited quantity:

LQ17

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Transport category: 2  
 Hazard No: 60  
 Tunnel restriction code: D/E

**Other applicable information (land transport)**

Special provisions: 274

E1

: 2

E4

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 1935  
**14.2. UN proper shipping name:** CYANIDE SOLUTION, N.O.S. (Potassium dicyanoaurate(I) )  
**14.3. Transport hazard class(es):** 6.1  
**14.4. Packing group:** II  
 Hazard label: 6.1



Classification code: T4  
 Special Provisions: 274 525 802  
 Limited quantity: 100 mL

**Other applicable information (inland waterways transport)**

E4

**Marine transport (IMDG)**

**14.1. UN number:** UN 1935  
**14.2. UN proper shipping name:** CYANIDE SOLUTION, N.O.S. (potassium dicyanoaurate(I))  
**14.3. Transport hazard class(es):** 6.1  
**14.4. Packing group:** II  
 Hazard label: 6.1



Marine pollutant: P  
 Special Provisions: 274  
 Limited quantity: 100 mL  
 EmS: F-A, S-A

**Other applicable information (marine transport)**

E4

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** UN 1935  
**14.2. UN proper shipping name:** CYANIDE SOLUTION, N.O.S. (potassium dicyanoaurate(I))  
**14.3. Transport hazard class(es):** 6.1  
**14.4. Packing group:** II  
 Hazard label: 6.1



Limited quantity Passenger: 1 L

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IATA-packing instructions - Passenger:	654
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	661
IATA-max. quantity - Cargo:	60 L

**Other applicable information (air transport)**

E1  
: Y611  
Special provisions: A3 A4 A137  
E4  
: Y609  
: Y641

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: yes

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Information according to 2012/18/EU H2 ACUTE TOXIC (SEVESO III):

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D): 3 - highly water contaminating

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

Classification	Classification procedure
Acute Tox. 2; H310	Calculation method
Acute Tox. 3; H301	Calculation method
Acute Tox. 4; H332	Calculation method
Aquatic Chronic 2; H411	Calculation method

**Relevant H and EUH statements (number and full text)**

H300	Fatal if swallowed.
H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
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.
EUH032	Contact with acids liberates very toxic gas.

Jentner Plating Technology GmbH  
**Safety Data Sheet**

according to Regulation (EC) No 1907/2006



**JENTNER**  
PLATING TECHNOLOGY

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**Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*