

Jentner Plating Technology GmbH
Safety Data Sheet

according to Regulation (EC) No 1907/2006

JENTNER
 PLATING TECHNOLOGY

Colour Gold Bath JE4xx

Print date: 26.09.2013

Product code: 84

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

1.1. Product identifier

Gesswein Product # 2100910 ; 2100911 ; 2100912 ; 2100913

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

Use of the substance/mixture

Electroplating solution

1.3. Details of the supplier of the safety data sheet

Company name: Jentner Plating Technology GmbH
 Street: Sandweg 20
 Place: D-75179 Pforzheim
 Telephone: +49 (0)7231 418094 0 Telefax: +49 (0)7231 418094 77
 e-mail: info@jentner.de
 Internet: www.jentner.de
 Responsible Department: The emergency hotline 0049 7231 280980 is reachable at our usual opening times on Mo-Fr between 08:00 am and 05:00 pm

1.4. Emergency telephone number:

Outside office hours: 0049 6131 19240 Counseling center for poisoning.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: Xn - Harmful

R phrases:

Harmful by inhalation, in contact with skin and if swallowed.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

GHS classification

Hazard categories:

Acute toxicity: Acute Tox. 4

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful if swallowed or in contact with skin.

Causes serious eye irritation.

Causes skin irritation.

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazardous components which must be listed on the label

caustic potash, potassium hydroxide

salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex

Signal word: Warning

Pictograms: GHS07





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Hazard statements

- H302+H312 Harmful if swallowed or in contact with skin.
- H319 Causes serious eye irritation.
- H315 Causes skin irritation.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P330 Rinse mouth.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P332 If skin irritation occurs:
- P362 Take off contaminated clothing and wash before reuse.
- P363 Wash contaminated clothing before reuse.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.

Special labelling of certain mixtures

- EUH031 Contact with acids liberates toxic gas.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
215-181-3	caustic potash, potassium hydroxide	1 %
1310-58-3	C - Corrosive, Xn - Harmful R22-35	
019-002-00-8	Acute Tox. 4, Skin Corr. 1A; H302 H314	
-	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. 0,3%
-	T+ - Very toxic, N - Dangerous for the environment R26/27/28-32-50-53	
006-007-00-5	Acute Tox. 2, Acute Tox. 1, Acute Tox. 2, Aquatic Acute 1, Aquatic Chronic 1; H330 H310 H300 H400 H410	

Full text of R and H phrases: 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).

After inhalation

Move victim to fresh air. Put victim at rest and keep warm.
 In case of inhaling spray mist, consult a doctor immediately and show him packing or label.

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After contact with skin

After contact with skin, wash immediately with: Water and soap.
In case of skin irritation, seek medical treatment.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

Seek medical advice immediately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing powder. Water spray. Carbon dioxide (CO₂).

5.3. Advice for firefighters

Use appropriate respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. Remove persons to safety.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. 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

Provide adequate ventilation. Retain contaminated washing water and dispose it. Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Advice on storage compatibility

Do not store together with: acid.

Further information on storage conditions

Keep locked up and out of the reach of children.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
1310-58-3	Potassium hydroxide	-	-	-	TWA (8 h)	WEL
		-	2	-	STEL (15 min)	WEL

8.2. Exposure controls

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Protective and hygiene measures

Do not eat, drink, smoke or sneeze at the workplace.
Keep away from food, drink and animal feedingstuffs.

Eye/face protection

Safety glasses.

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.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	clear, whitish
Odour:	product-specific

pH-Value (at 20 °C):

11,5 - 12,5

Changes in the physical state

Boiling point:

98 °C

Density (at 20 °C):

1,05 g/cm³

Test method

SECTION 10: Stability and reactivity

10.4. Conditions to avoid

No decomposition if used as directed.

10.5. Incompatible materials

Acid.

10.6. Hazardous decomposition products

Hydrocyanic acid (hydrocyanic acid).

Further information

Gas/vapours, harmful.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Subacute oral toxicity



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CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
1310-58-3	caustic potash, potassium hydroxide				
	oral	LD50	273 mg/kg	Rat	RTECS
-	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		
	inhalative vapour	ATE	0,5 mg/l		
	inhalative aerosol	ATE	0,05 mg/l		

Irritation and corrosivity
 strongly irritant.

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic organisms.
 The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see chapter 3).

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	h	Species	Source
1310-58-3	caustic potash, potassium hydroxide					
	Acute fish toxicity	LC50	80 mg/l	96 h	Gambusia affinis	IUCLID

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal number of waste from residues/unused products

110111 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); aqueous rinsing liquids containing dangerous substances
 Classified as hazardous waste.

Contaminated packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning.

SECTION 14: Transport information

Land transport (ADR/RID)

14.2. UN proper shipping name: Not a hazardous material with respect to these transportation regulations.

Inland waterways transport (ADN)

14.2. UN proper shipping name: Not a hazardous material with respect to these transportation regulations.

Marine transport (IMDG)

14.2. UN proper shipping name: Not a hazardous material with respect to these transportation regulations.

Air transport (ICAO)

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14.2. UN proper shipping name: Not a hazardous material with respect to these transportation regulations.

SECTION 15: Regulatory information

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

National regulatory information

Water contaminating class (D): 2 - water contaminating

SECTION 16: Other information

Full text of R phrases referred to under Sections 2 and 3

- | | |
|----------|---|
| 20/21/22 | Harmful by inhalation, in contact with skin and if swallowed. |
| 22 | Harmful if swallowed. |
| 26/27/28 | Very toxic by inhalation, in contact with skin and if swallowed. |
| 32 | Contact with acids liberates very toxic gas. |
| 35 | Causes severe burns. |
| 50 | Very toxic to aquatic organisms. |
| 52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 53 | May cause long-term adverse effects in the aquatic environment. |

Full text of H statements referred to under Sections 2 and 3

- | | |
|-----------|---|
| H300 | Fatal if swallowed. |
| H302 | Harmful if swallowed. |
| H302+H312 | Harmful if swallowed or in contact with skin. |
| H310 | Fatal in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Further Information

This information is based on the present state of knowledge, but they do not constitute a guarantee of product properties and establishes no contract legal rights. Existing laws and regulations are followed by the recipient of our products on their own responsibility. This MSDS contains only safety-related information and does not replace any information or product specifications.

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