

**Colour Gold Bath JE400-499**

Revision date: 04.09.2017

Product code: 84

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

**1.1. Product identifier**

Colour Gold Bath JE400-499

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

**Use of the substance/mixture**

Plating agents and metal surface treating agents

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

Company name:	Jentner Plating Technology GmbH	
Street:	Johann-Staib-Strasse 2	
Place:	D-75179 Pforzheim	
Telephone:	+49 (0)7231 418094 0	Telefax: +49 (0)7231 418094 77
e-mail:	info@jentner.de	
Contact person:	Chemistry Department	
Internet:	www.jentner.de	
Responsible Department:	Poison Information Center of the University of Freiburg.	

**1.4. Emergency telephone number:**

0049 (0)761 19240 - 24 h german and english

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

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

Hazard categories:

Substance or mixture corrosive to metals: Met. Corr. 1

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:

May be corrosive to metals.

Harmful in contact with skin.

Harmful if swallowed.

Causes skin irritation.

Causes serious eye irritation.

Harmful to aquatic life with long lasting effects.

**2.2. Label elements**

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

**Hazard components for labelling**

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:**



**Hazard statements**

H290

May be corrosive to metals.

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

**Precautionary statements**

P234	Keep only in original packaging.
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/doctor if you feel unwell.
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of water.
P312	Call a POISON CENTER/doctor if you feel unwell.
P321	Specific treatment (see SECTION 4: First aid measures on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it 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.
P390	Absorb spillage to prevent material damage.
P406	Store in a corrosion-resistant container with a resistant inner liner.
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
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
1310-58-3	caustic potash, potassium hydroxide	1 %
	215-181-3	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%
	-	006-007-00-5
	Acute Tox. 2, Acute Tox. 1, Acute Tox. 2, Aquatic Acute 1, Aquatic Chronic 1; H330 H310 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).

**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.

**After contact with skin**

After contact with skin, wash immediately with: Water and soap.

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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.

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

Treat symptomatically.

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

Co-ordinate fire-fighting measures to the fire surroundings. Extinguishing powder. Water spray. Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder.

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

No information available.

**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.

**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.

**6.4. Reference to other sections**

Personal protection equipment: see section 8

**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.

General Precautions for safe handling of chemicals.

**Advice on protection against fire and explosion**

The product itself does not burn.

**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**

Keep away from food, drink and animal feedingstuffs.

**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**

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**Exposure limits (EH40)**

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

**8.2. Exposure controls****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**

Eye glasses with side protection

**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: odourless  
 pH-Value (at 20 °C): 11 - 12

**Changes in the physical state**

Initial boiling point and boiling range: 98 °C  
 Sublimation point: not determined  
 Flash point: not applicable

**Explosive properties**

not explosive.

Lower explosion limits: not applicable

**Oxidizing properties**

Not oxidising.

Vapour pressure: not determined

Density (at 20 °C): 1,05 g/cm<sup>3</sup>

Water solubility: easily soluble

**Solubility in other solvents**

No data available

Partition coefficient: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Flow time: not determined

Vapour density: not determined

Solvent separation test: not applicable



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**SECTION 10: Stability and reactivity**

**10.2. Chemical stability**

The mixture is chemically stable under recommended conditions of storage, use and temperature.

**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).  
Gas/vapours, harmful.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

Harmful if swallowed or in contact with skin.

**ATEmix calculated**

ATE (oral) 1570,8 mg/kg; ATE (dermal) 1666,7 mg/kg

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
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**

Causes serious eye irritation.  
Causes skin irritation.

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**STOT-single exposure**

No information available.

**STOT-repeated exposure**

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

**Aspiration hazard**

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

**SECTION 12: Ecological information**

**12.1. Toxicity**

Toxic to aquatic organisms.

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The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).

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

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

No information available.

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

No information available.

**12.6. Other adverse effects**

No information available.

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

Consult supplier about waste disposal.

**Waste disposal number of used product**

110112 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 other than those mentioned in 11 01 11

**Contaminated packaging**

Contaminated packages must be completely emptied and can be re-used following proper cleaning.  
For cleaning up : Water (with cleaning agent)

**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:** No dangerous good in sense of these transport regulations.

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

**14.2. UN proper shipping name:** No dangerous good in sense of these transport regulations.

**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 Not subject to 2012/18/EU (SEVESO III)  
(SEVESO III):



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**National regulatory information**

Water contaminating class (D): 2 - clearly water contaminating

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information**

**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,4,5,6,7,8,9,10,11,12,13,15,16.

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

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Acute Tox. 4; H312	Calculation method
Acute Tox. 4; H302	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Aquatic Chronic 3; H412	Calculation method

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

- H290 May be corrosive to metals.
- 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.
- EUH032 Contact with acids liberates very toxic gas.

**Further Information**

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