Jentner Plating Technology GmbH Safety Data Sheet

according to Regulation (EC) No 1907/2006



## **Rhodium Bath for Pen-Plating JE28-1**

Revision date: 01.04.2019

Product code: 107

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

## 1.1. Product identifier

Rhodium Bath for Pen-Plating JE28-1

#### 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

The Details of the Supplier of the	ic Sulety 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:	Department of Chemistry	
Internet:	www.jentner.de	
Responsible Department:	Poison Information Center of the Univ	versity of Freiburg.
1.4. Emergency telephone	0049 (0)761 19240 - 24 h german an	d english

## number:

## **Further Information**

BfR Produktnummer: 6265827

## **SECTION 2: Hazards identification**

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

# Regulation (EC) No. 1272/2008

Hazard categories: Skin corrosion/irritation: Skin Corr. 1A Serious eye damage/eye irritation: Eye Dam. 1 Germ cell mutagenicity: Muta. 2 Hazard Statements: Causes severe skin burns and eye damage. Causes serious eye damage. Suspected of causing genetic defects.

#### 2.2. Label elements

## Regulation (EC) No. 1272/2008

### Hazard components for labelling sulphuric acid 96 %

Rhodium (III) Sulfate Inal word: Danger

Signal word:

## **Pictograms:**



## Hazard statements

H	13	1	4	
H	łЗ	4	1	

Causes severe skin burns and eye damage. Suspected of causing genetic defects.

## Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.

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P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin v or shower.	with water
P363	Wash contaminated clothing before reuse.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P310	Immediately call a POISON CENTER/doctor.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact len present and easy to do. Continue rinsing.	ises, if
P310	Immediately call a POISON CENTER/doctor.	
P308+P313	IF exposed or concerned: Get medical advice/attention.	
P405	Store locked up.	

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

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name			
	EC No	Index No	REACH No	
	GHS Classification		-	
7664-93-9	sulphuric acid 96 %			15-25 %
	231-639-5	016-020-00-8		
	Skin Corr. 1A; H314		-	
10489-46-0	Rhodium (III) Sulfate			max. 3 %
	234-014-5			
	Met. Corr. 1, Muta. 2, Skin Corr. 1B, Eye Dam. 1, STOT SE 3; H290 H341 H314 H318 H335			35

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

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

### 4.1. Description of first aid measures

#### **General information**

Remove contaminated, saturated clothing immediately. Get medical advice/attention if you feel unwell.

### After contact with skin

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water.

#### 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

If swallowed, immediately drink: Water. Call a physician in any case!

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

### Suitable extinguishing media

Foam.Water.Extinguishing powder

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## 5.3. Advice for firefighters

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

#### **SECTION 6: Accidental release measures**

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

Wear personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

Take up mechanically, placing in appropriate containers for disposal.

### 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

#### Advice on safe handling

Handle and open container with care.

## 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

Only use containers specifically approved for the substance/product.

#### 7.3. Specific end use(s)

Plating agents and metal surface treating agents

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7664-93-9	Sulphuric acid (mist)	-	0.05		TWA (8 h)	WEL

#### Additional advice on limit values

Does not contain substances above concentration limits fixing an occupational exposure limit.

## 8.2. Exposure controls

## Protective and hygiene measures

Do not eat, drink, smoke or sneeze at the workplace. Take off immediately all contaminated clothing. Avoid contact with skin, eyes and clothes.

#### Eye/face protection

Tightly sealed safety glasses.

#### Hand protection

The material of the gloves should be enough tight and firm against the used substance.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

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## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state: Colour: Odour:	liquid yellow-orange none		
pH-Value (at 20 °C):		< 1	
<b>Changes in the physical state</b> Initial boiling point and boiling range: Sublimation point:		not determined not determined	
Flash point:		not applicable	
Flammability Solid: Gas:		not applicable not applicable	
Explosive properties not explosive.			
Lower explosion limits:		not applicable	
Upper explosion limits:		not applicable	
Oxidizing properties Not oxidising.			
Vapour pressure:		not determined	
Density (at 20 °C):		1,12 g/cm <sup>3</sup>	
Water solubility:		highly soluble.	
Solubility in other solvents not determined			
Viscosity / dynamic:		not determined	
Flow time:		not determined	
Vapour density:		not determined	
Solvent separation test:		not applicable	

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

## 10.3. Possibility of hazardous reactions

## Corrosive to metals.

#### 10.4. Conditions to avoid

No decomposition if used as directed.

#### 10.5. Incompatible materials

Alkalis (alkalis), concentrated.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

## Acute toxicity

This mixture does not contain further substances fullfilling the criteria of hazard class "acute toxicity" according to CLP regulation.

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### Irritation and corrosivity

Verursacht schwere Verätzungen der Haut und schwere Augenschäden.

## Aspiration hazard

Causes severe skin burns and eye damage.

## Additional information on tests

Gefahr ernster Gesundheitsschäden bei längerer Exposition durch Verschlucken.

## SECTION 12: Ecological information

### 12.1. Toxicity

This mixture does not contain further substances fullfilling the criteria of hazard class "acute toxicity" according to CLP regulation.

## 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

No data available

## 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

This mixture does not contain any substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC or Regulation (EC) No 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Advice on disposal

Can be reused after processing.

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

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

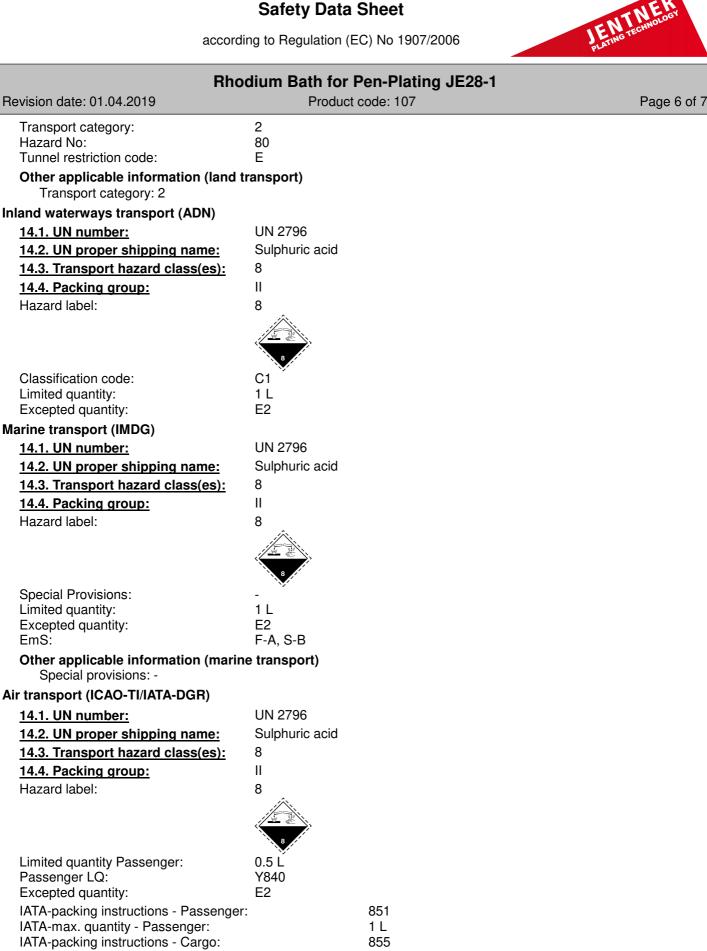
#### **Contaminated packaging**

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

## **SECTION 14: Transport information**

## Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN 2796
14.2. UN proper shipping name:	Sulphuric acid
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
Classification code:	C1
Limited quantity:	1 L
Excepted quantity:	E2



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IATA-max. quantity - Cargo:

30 L

## **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):

## National regulatory information

Water contaminating class (D):

2 - clearly water contaminating

## **SECTION 16: Other information**

## Changes

This data sheet contains changes from the previous version in section(s): 2,9,12,15.

## Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

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

Classification	Classification procedure
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Muta. 2; H341	Calculation method

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

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.

## **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 singulary 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.

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