

Safety Data Sheet

according to Regulation (EC) No 1907/2006



Rhodium Bath for Pen-Plating JE28-1

Print date: 23.09.2013

Product code: 107

Page 1 of 6

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

1.1. Product identifier

Rhodium Bath for Pen-Plating JE28-1

Gesswein Product # 2101023

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

Use of the substance/mixture

Precious metal-electrolyte

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: C - Corrosive

R phrases:
Causes burns.

GHS classification

Hazard categories:
Skin corrosion/irritation: Skin Corr. 1A
Serious eye damage/eye irritation: Eye Dam. 1
Hazard Statements:
Highly flammable liquid and vapour.
Causes severe skin burns and eye damage.

2.2. Label elements

Hazardous components which must be listed on the label

Sulphuric acid 96 %

Signal word: Danger

Pictograms: GHS05



Hazard statements

H225 Highly flammable liquid and vapour.
H314 Causes severe skin burns and eye damage.

Precautionary statements

P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Rhodium Bath for Pen-Plating JE28-1

Print date: 23.09.2013

Product code: 107

Page 2 of 6

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): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363	Wash contaminated clothing before reuse.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310	Immediately call a POISON CENTER or doctor/physician.
P321	Specific treatment (see 4 on this label).
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P405	Store locked up.

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		
231-639-5	Sulphuric acid 96 %	10-25 %
7664-93-9	C - Corrosive R35	
016-020-00-8	Skin Corr. 1A; H314	
234-014-5	Rhodium (III) Sulfate	max. 5 %
10489-46-0	C - Corrosive R34	
	Met. Corr. 1, Skin Irrit. 2; H290 H315	

Full text of R and H phrases: see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Seek medical attention if problems persist.
Remove contaminated, saturated clothing immediately.

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

All

Safety Data Sheet

according to Regulation (EC) No 1907/2006



Rhodium Bath for Pen-Plating JE28-1

Print date: 23.09.2013

Product code: 107

Page 3 of 6

5.3. Advice for firefighters

Protective clothing.

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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Open and handle container with care.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Only use containers specifically approved for the substance/product.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
7664-93-9	Sulphuric acid (mist)	-	0.05		TWA (8 h)	WEL
		-	-		STEL (15 min)	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

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
 Colour: yellow-orange
 Odour: none

Test method

pH-Value (at 20 °C): < 1

Safety Data Sheet

according to Regulation (EC) No 1907/2006



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Rhodium Bath for Pen-Plating JE28-1

Print date: 23.09.2013

Product code: 107

Page 4 of 6

Changes in the physical state

Boiling point: 100 °C

Oxidizing properties

Non-flammable.

Density (at 20 °C): 1,12 g/cm³

SECTION 10: Stability and reactivity

10.4. Conditions to avoid

No decomposition if used as directed.

10.5. Incompatible materials

Alkalis (alkalis).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

34
Preparation not tested.
Toxicological data are not available.

Irritation and corrosivity

corrosive.

Additional information on tests

Gefahr ernster Gesundheitsschäden bei längerer Exposition durch Verschlucken.

SECTION 12: Ecological information

12.1. Toxicity

Negative ecological effects are not expected according to current knowledge.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Disposal considerations
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)

14.1. UN number: UN2796
14.2. UN proper shipping name: SULPHURIC ACID with not more than 51 % acid
14.3. Transport hazard class(es): 8
14.4. Packing group: II

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Rhodium Bath for Pen-Plating JE28-1

Print date: 23.09.2013

Product code: 107

Page 5 of 6

Hazard label: 8



Classification code: C1
 Limited quantity: 1 L
 Transport category: 2
 Hazard No: 80
 Tunnel restriction code: E

Other applicable information (land transport)

E2
 Transport category: 2

Inland waterways transport (ADN)

14.1. UN number: UN2796
14.2. UN proper shipping name: SULPHURIC ACID with not more than 51 % acid
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8



Classification code: C1
 Limited quantity: 1 L

Other applicable information (inland waterways transport)

E2

Marine transport (IMDG)

14.1. UN number: UN2796
14.2. UN proper shipping name: SULPHURIC ACID with not more than 51 % acid
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8



Special Provisions: -
 Limited quantity: 1 L
 EmS: F-A, S-B

Other applicable information (marine transport)

Special provisions: -
 E2

Air transport (ICAO)

14.1. UN number: UN2796
14.2. UN proper shipping name: SULPHURIC ACID with not more than 51 % acid
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Rhodium Bath for Pen-Plating JE28-1

Print date: 23.09.2013

Product code: 107

Page 6 of 6



Limited quantity Passenger:	0.5 L	
IATA-packing instructions - Passenger:		851
IATA-max. quantity - Passenger:		1 L
IATA-packing instructions - Cargo:		855
IATA-max. quantity - Cargo:		30 L

Other applicable information (air transport)

E2
: Y809
: Y840

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): 1 - slightly water contaminating

SECTION 16: Other information**Full text of R phrases referred to under Sections 2 and 3**

34 Causes burns.
35 Causes severe burns.

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

H225 Highly flammable liquid and vapour.
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.

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.)