

Rhodium Replenisher JE88

Revision date: 29.03.2019

Product code: 131

Page 1 of 7

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Rhodium Replenisher JE88

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

Metal surface treatment products, including galvanic and electroplating products

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: Department of Chemistry
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**Further Information**

BfR Produktnummer: 6265829

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

Skin corrosion/irritation: Skin Corr. 1

Serious eye damage/eye irritation: Eye Dam. 1

Germ cell mutagenicity: Muta. 2

Hazard Statements:

May be corrosive to metals.

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

Signal word: Danger**Pictograms:****Hazard statements**

H290

May be corrosive to metals.

H314

Causes severe skin burns and eye damage.

H341

Suspected of causing genetic defects.

Rhodium Replenisher JE88

Revision date: 29.03.2019

Product code: 131

Page 2 of 7

Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P234	Keep only in original packaging.
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 with water or shower.
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 lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P390	Absorb spillage to prevent material damage.
P405	Store locked up.
P406	Store in a corrosion-resistant container with a resistant inner liner.

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

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

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.

In case of accident or if you feel unwell, seek medical advice immediately (show this label if possible).

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

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

After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician in any case!

SECTION 5: Firefighting measures

Rhodium Replenisher JE88

Revision date: 29.03.2019

Product code: 131

Page 3 of 7

5.1. Extinguishing media**Suitable extinguishing media**

All

5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings.

The product itself does not burn.

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**

Handle and open 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

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.

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

Rhodium Replenisher JE88

Revision date: 29.03.2019

Product code: 131

Page 4 of 7

Test method

pH-Value (at 20 °C):

<1 DIN 51369

Changes in the physical state

Initial boiling point and boiling range:

ca. 100 °C

Sublimation point:

not determined

Explosive properties

not explosive.

Oxidizing properties

Not oxidising.

Vapour pressure:

not determined

Density (at 20 °C):

1,04 g/cm³

Bulk density:

not determined

Water solubility:

very soluble

Solubility in other solvents

not determined

Viscosity / dynamic:

not determined

Flow time:

not determined

Vapour density:

not determined

Evaporation rate:

not determined

Solvent separation test:

not applicable

SECTION 10: Stability and reactivity**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

10.4. Conditions to avoid

No decomposition if used as directed.

Corrosive to metals

10.5. Incompatible materials

Alkalis (alkalis), concentrated.

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

Preparation not tested.

Toxicological data are not available.

Irritation and corrosivity

strongly irritant.

Sensitising effects

There are no data available on the mixture itself.

STOT-single exposure

There are no data available on the mixture itself.

STOT-repeated exposure

There are no data available on the mixture itself.

SECTION 12: Ecological information

Rhodium Replenisher JE88

Revision date: 29.03.2019

Product code: 131

Page 5 of 7

12.1. Toxicity

Negative ecological effects are not expected according to current knowledge.

12.2. Persistence and degradability

not determined

12.3. Bioaccumulative potential

not determined

12.4. Mobility in soil

not determined

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

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

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

Rhodium Replenisher JE88

Revision date: 29.03.2019

Product code: 131

Page 6 of 7



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)

E2

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



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

: 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

15.2. Chemical safety assessment

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

Rhodium Replenisher JE88

Revision date: 29.03.2019

Product code: 131

Page 7 of 7

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,3,16.

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
Skin Corr. 1; H314	On basis of test data
Eye Dam. 1; H318	On basis of test data
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 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.

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