according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Scharlau

### Version number 3.0

Revision: 02.06.2021

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

1.1 Product identifier

- · Trade name: Rhodium, standard solution 1000 mg/l for ICP (RhCl3 in HCl 5%)
- Article number: RO0023
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- Application of the substance / the preparation: Laboratory reagent
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Scharlab, S.L. C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa 08181 Sentmenat (Barcelona) SPAIN Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65 email: scharlab@scharlab.com Internet Web Site: www.scharlab.com Regional representation:

#### Scharlab, S.L. C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa 08181 Sentmenat (Barcelona) SPAIN Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65 email: scharlab@scharlab.com Internet Web Site: www.scharlab.com

Further information obtainable from: technical department

#### 1.4 Emergency telephone number:

Toxicological Information National Institute of Toxicology and Forensic Sciences: + 34 91 562 04 20. The information will be provided (24h/365 days) Please contact the regional Scharlab distributor/dealer in your country During normal opening times: Scharlab, S.L. (+34) 93 715 18 11

## **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Met. Corr.1 H290 May be corrosive to metals.



Skin Irrit. 2 H315 Causes skin irritation.

ie wise choic

Eye Irrit. 2 H319 Causes serious eye irritation

STOT SE 3 H335 May cause respiratory irritation.

· 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

according to 1907/2006/EC, Article 31

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Trade name: Rhodium, standard solution 1000 mg/l for ICP (RhCl3 in HCl 5%)

(Contd. of page 1) Hazard pictograms GHS05 GHS07 · Signal word Warning Hazard-determining components of labelling: hydrochloric acid Hazard statements H290 May be corrosive to metals. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves / eye protection / face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. P406 Store in a corrosion resistant container / container with a resistant inner liner. P501 Dispose of contents/container in accordance with local/regional/national/ international regulations. 2.3 Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. **SECTION 3: Composition/information on ingredients** · 3.2 Chemical characterisation: Mixtures · Description: Mixture of substances listed below with nonhazardous additions. · Dangerous components: EINECS: 231-595-7 hydrochloric acid 5-10% Skin Corr. 1B, H314; Eye Dam. 1, H318; () Acute Tox. 4, H302; **ŠTOT SE 3, H335** CAS: 10049-07-7 0.1-1% rhodium trichloride EINECS: 233-165-4 🛞 Acute Tox. 2, H300 · Additional information: For the wording of the listed hazard phrases refer to section 16. **SECTION 4: First aid measures** · 4.1 Description of first aid measures General information: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact:
- Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Call for a doctor immediately.

(Contd. on page 3)

according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Scharlau

Version number 3.0

Revision: 02.06.2021

(Contd. of page 2)

Trade name: Rhodium, standard solution 1000 mg/l for ICP (RhCl3 in HCl 5%)

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3** Indication of any immediate medical attention and special treatment needed No further relevant information available.

# **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

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

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
   Dispose contaminated material as waste according to item 13.
- Ensure adequate ventilation.
- 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling No special measures required.
   Ensure good ventilation/exhaustion at the workplace.
   Prevent formation of aerosols.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- · 7.3 Specific end use(s) No further relevant information available.

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

- · 8.1 Control parameters
- Additional information about design of technical facilities: No further data; see item 7.
- · Ingredients with limit values that require monitoring at the workplace:

### 10049-07-7 rhodium trichloride

- WEL Short-term value: 0.003 mg/m<sup>3</sup>
  - Long-term value: 0.001 mg/m<sup>3</sup> as Rh

(Contd. on page 4)

#### Page 4/7

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Scharlau

Version number 3.0

Revision: 02.06.2021

Trade name: Rhodium, standard solution 1000 mg/l for ICP (RhCl3 in HCl 5%)

(Contd. of page 3)

- Additional information: The lists valid during the making were used as basis.
- 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.
- Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Goggles recommended during refilling

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

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:
- Form:
- Colour:
- Odour:
- · Odour threshold:
- · pH-value:

Fluid According to product specification Characteristic Not determined.

Not determined.

Not applicable.

Not applicable.

- Change in condition Melting point/freezing point: Initial boiling point and boiling range: 85 °C
- · Flash point:
- · Flammability (solid, gas):
- · Auto-ignition temperature:
- Explosive properties:
- Explosion limits: Lower: Upper:
- · Vapour pressure at 20 °C:

· Density:

- · Relative density
- Vapour density
- · Evaporation rate

Product does not present an explosion hazard.

Product is not selfigniting.

Not determined. Not determined.

23 hPa

Not determined. Not determined. Not determined. Not determined.

(Contd. on page 5)

#### Page 5/7

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Scharlau

Version number 3.0

Revision: 02.06.2021

(Contd. of page 4)

Trade name: Rhodium, standard solution 1000 mg/l for ICP (RhCl3 in HCl 5%)

- Solubility in / Miscibility with water:
- · Partition coefficient: n-octanol/water:
- · Viscosity: Dynamic: **Kinematic:**
- Solvent content; Water:

Solids content:

9.2 Other information

0.2 %

94.1 %

Not determined.

Not determined.

Not determined.

No further relevant information available.

Not miscible or difficult to mix.

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

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

- 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- Skin corrosion/irritation
- Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information:
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure
- May cause respiratory irritation.
- 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
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.

(Contd. on page 6)



according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Version number 3.0

Revision: 02.06.2021

Trade name: Rhodium, standard solution 1000 mg/l for ICP (RhCl3 in HCl 5%)

(Contd. of page 5)

Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.
- **SECTION 13: Disposal considerations**
- · 13.1 Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

## **SECTION 14: Transport information**

- 14.1 UN-Number
- · ADR, IMDG, IATA
- · 14.2 UN proper shipping name
- · ADR

UN3264

trichloride)

3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID, rhodium trichloride) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID, rhodium

- · 14.3 Transport hazard class(es)
- · ADR, IMDG, IATA



· IMDG, IATA

- · Class
- · Label
- 14.4 Packing group
- · ADR, IMDG, IATA
- · 14.5 Environmental hazards:
- Marine pollutant:
- 14.6 Special precautions for user
- Hazard identification number (Kemler code): 80
- · EMS Number:
- Segregation groups
  Stowage Category
- · Slowage Calego
- Stowage Code
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

8 Corrosive substances.

Ш

No

Warning: Corrosive substances. 80 F-A,S-B Acids

A SW2 Clear of living quarters.

Contd

(Contd. on page 7)

according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Scharlau

Version number 3.0

Revision: 02.06.2021

Trade name: Rhodium, standard solution 1000 mg/l for ICP (RhCl3 in HCl 5%)

(Contd. of page 6)

- Transport/Additional information:
- · ADR
- · Limited quantities (LQ)
- · Transport category
- · Tunnel restriction code
- · UN "Model Regulation":

UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID, RHODIUM TRICHLORIDE), 8, III

## **SECTION 15: Regulatory information**

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

5L

3

Ε

- · Directive 2012/18/EU
- Named dangerous substances ANNEX I None of the ingredients is listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
- None of the ingredients is listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### **Relevant phrases**

- H300 Fatal if swallowed.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

- Department issuing SDS: product safety department
- · Contact: msds@scharlab.com
- Abbreviations and acronvms:
- ADR: Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society)
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Met. Corr.1: Corrosive to metals Category 1
- Acute Tox. 2: Acute toxicity Category 2 Acute Tox. 4: Acute toxicity Category 4
- Skin Corr. 1B: Skin corrosion/irritation Category 1B Skin Irrit. 2: Skin corrosion/irritation - Category 2
- Eye Dam. 1: Serious eye damage/eye irritation Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) Category 3