

Safety data sheet
According to Regulation n. 1907/2006 and Regulation 878/2020
Rhodium Ready to Use 2 g/l



Revision n. III dd 06.21.2021
Replaces revision n II dd 01.21.2019

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**
Commercial name Rhodium Ready to Use 2 g/l
Product code 124
Registration number A registration number is not available for this product as it is a mixture
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Intended uses Raw material for electroplating baths for industrial use
Advised against uses None in particular
- 1.3 Details of the supplier of the safety data sheet**
Name FAGGI ENRICO S.P.A.
Address Via Majorana, 101/103 50019 Sesto Fiorentino FI
Telephone number 055311861
Fax number 055311791
Competent person responsible for the safety data sheet lorenzo.magaldi@faggi.it
- 1.4 Emergency telephone number** Ph. 0557947819 Poison Control Center of Florence

2. HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture according to Regulation (EC) n. 1272/2008:**

Skin Corr. 1A H314

- 2.2 Label elements**
Pictograms



Signal words DANGEROUS

Hazard statements

H314

Causes severe skin burns and eye damage.

Precautionary statements

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

Safety data sheet
According to Regulation n. 1907/2006 and Regulation 878/2020
Rhodium Ready to Use 2 g/l



Revision n. III dd 06.21.2021
 Replaces revision n II dd 01.21.2019

clothing. Rinse skin with water [or shower].

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P501

Dispose of contents/container in accordance with the regulations.

2.3 Other hazards

It does NOT contain PBT / vPvB substances according to Regulation (EC) 1907/2006, annex XIII
 It does NOT contain substances that interfere with the endocrine system in accordance with Regulation (EC) 1907/2006 art.59 paragraph 1 and in accordance with the criteria established in Regulation (EU) 2017/2100 and Regulation (EU) 2018/605.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2

Mixture

Product identifier	Concentration %	Classification	
		Hazard classes	Category codes
Sulfuric acid CAS 7664-93-9 EINECS 231-639-5 Reach No: 01-2119458838-20-XXXX	3 % ≤ conc ≤ 5 %	Skin Corr. 1 A	H314

4. FIRST AID MEASURES

4.1

Description of first aid measures

Inhalation	Keep the injured person at rest in an airy and warm environment. In case of respiratory arrest, use artificial respiration methods.
Ingestion	Do not induce vomiting. Drink plenty of water and consult a doctor.
Skin contact	Take off contaminated clothing and dispose of it safely. Immediately wash skin with plenty of water and soap. Consult a physician

Safety data sheet
According to Regulation n. 1907/2006 and Regulation 878/2020
Rhodium Ready to Use 2 g/l



Revision n. III dd 06.21.2021
Replaces revision n II dd 01.21.2019

Complete clothing compliant with the UNI EN 13034: 2006 standard
Semi-face masks with ABEK2P3 R filters conforming to EN14387: 2004 + A1: 2008

6.2 Environmental precautions

Prevent infiltration into the sewer, groundwater and surface water of the washing water.

6.3 Methods and material for containment and cleaning up

6.3.1. Advice to contain a spill

Contain spill with appropriate absorbent material (sand, bentonite) and place in airtight container. Sprinkle the spill with baking soda to neutralize the acidity.

6.3.2. Advice to clean-up a spill

Wash the area with plenty of water.

6.4 Reference to other sections

None.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1. Recommendations to manipulate the substance or the mixture in a safe manner, such as containment measures and prevention of fire and aerosol and powders formation

During processing, before transferring operations, make sure that there are no incompatible residual materials in the containers used.

7.1.2. General recommendation on work hygiene

Do not eat, drink and smoke in work areas. Wash your hands after use. Remove contaminated clothing and protective equipment before entering eating areas

7.2. Conditions for safe storage, including any incompatibilities

Keep away from bases and metals.

7.2.1. Risk management associated with explosive atmospheres, corrosive conditions, flammability hazards, incompatible substances or mixtures, evaporative conditions, potential ignition sources

Store in the original containers and close them immediately after use.

7.2.3. Control of weather conditions, ambient pressure, temperature, sunlight, humidity, and vibration

Store in a cool, dry place.

7.2.4. Conditions for keeping substances / mixtures intact

The packages must be well closed and labeled.

7.2.5. Advice regarding the ventilation, specific design for storage rooms or vessels, quantity limits under storage conditions, packaging compatibilities

Use PE and PP plastic packaging or other resistant materials. Keep the packages in a containment basin.

7.3. Specific end use(s)

Industrial use

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters for sulfuric acid

UE-TWA 8h : 0.05 mg/m³

Safety data sheet
According to Regulation n. 1907/2006 and Regulation 878/2020
Rhodium Ready to Use 2 g/l



Revision n. III dd 06.21.2021
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- ACGIH-TWA 8h : 0,2 mg/m³
- 8.2. Exposure controls**
- 8.2.1. Appropriate engineering controls**
 Ventilation systems. Emergency showers and eye washing system near the work area.
- 8.2.2. Individual protection measures, such as personal protective equipment**
- Eye/face protection** Splash goggles compliant with Directive 89/686 / EEC and standard EN166: 2001
- Skin protection (hands)** Gloves for chemical risks compliant with EN420 EN374.
- Skin protection (body)** Complete clothing compliant with the UNI EN 13034: 2006 standard.
- Respiratory protection** Semi-face masks with ABEK2P3 R filters conforming to EN14387: 2004 + A1: 2008
- Thermal hazards** Information not available.
- 8.2.3. Environmental exposure controls**
 Maintain suction in all environments using localized collection systems and ambient air exchange. Convey the aspirated volumes to an abatement system and then into the atmosphere. Do not use air recirculation suction systems. Avoid any spillage into the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Dark orange
Odour	Acid
Melting point/freezing point	- 4 °C
Boiling point or initial boiling point and boiling range	Ca 101 °C
Flammability	Not flammable
Lower and upper explosion limit	Not explosive
Flash point	Not flammable
Auto-ignition temperature	Not flammable
Decomposition temperature	The product decomposes at about 335 °C
pH	≤ 1
Kinematic viscosity	Not available data
Solubility	Fully miscible in water
Partition coefficient n-octanol/water (log value)	Fully miscible in water
Vapour pressure	Undefined
Density and/or relative density	1.1 g/cm ³
Relative vapour density	Not available data
Particle characteristics	Not applicable

Safety data sheet
According to Regulation n. 1907/2006 and Regulation 878/2020
Rhodium Ready to Use 2 g/l



Revision n. III dd 06.21.2021
Replaces revision n II dd 01.21.2019

9.2. Other information

None.

10. STABILITY AND REACTIVITY

10.1 Reactivity

The product exhibits strongly acidic behavior.

10.2 Chemical stability

Stable under normal storage conditions.

10.3 Possibility of hazardous reactions

It can react violently with water with strong development of heat and projection of hot and / or corrosive liquids.

10.4 Conditions to avoid

Overheating.

10.5 Incompatible materials

Bases, organic substances.

10.6 Hazardous decomposition products

Sulfur oxides.

11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (CE) No 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met
Corrosive to the skin and mucous membranes.

Skin corrosion/irritation

Strongly corrosive

Serious eye damage/irritation

Respiratory or skin sensitization

Based on available data, the classification criteria are not met

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

Based on available data, the classification criteria are not met

(STOT) repeated exposure

Based on available data, the classification criteria are not met

Aspiration hazard

Corrosive to the respiratory tract

Safety data sheet
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Rhodium Ready to Use 2 g/l



Revision n. III dd 06.21.2021
 Replaces revision n II dd 01.21.2019

11.2 Information on others hazards

None

12. ECOLOGICAL INFORMATION

As it is not possible to provide specific data on the mixture, the following data are provided for the substance ammonium vanadate

12.1	Toxicity	Based on available data, the classification criteria are not met
12.2	Persistence and degradability	Not persistent
12.3	Bioaccumulative potential	Not bioaccumulative
12.4	Mobility in soil	Undefined
12.5	Results of PBT and vPvB assessment	Not classified
12.6	Endocrine disrupting properties	Data not available

12.7 Other adverse effects None know

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

The substance and its packaging must be disposed of as hazardous waste by authorized companies.

14. TRANSPORT INFORMATION

14.1	UN number or ID number	ONU: 3264
14.2	UN proper shipping name	Corrosive inorganic liquid, acid n.o.s. (sulfuric acid)
14.3	Transport hazard class(es)	8
14.4	Packing group	I
14.5	Environmental hazards	NO
14.6	Special precautions for user	Approved packaging
14.7	Maritime transport in bulk according to IMO instruments	Not applicable

15. REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	Applicability
	<i>Reg. (CE) 1907/2006/CE Reach</i>	YES
	<i>Reg. (CE) 1272/2008 CLP and subsequent amendements</i>	YES
	<i>Reg. (CE) 2037/2000 "Substances that deplete the ozone layer"</i>	NO
	<i>Reg. (CE) 850/2004 "Persistent organic pollutants"</i>	NO
	<i>Reg. (CE) 689/2008 "Export and import of hazardous chemicals"</i>	NO
	<i>Substance listed in Annex I of Dir. 2012/18/UE cd Seveso</i>	NO
	<i>Directive 81/2008 Consolidated Act on protection of health and work safety</i>	YES
	<i>Directive 2014/103/UE "Adr"</i>	YES
15.2	Chemical safety assessment	
	A chemical safety assessment was not carried out	

Safety data sheet
According to Regulation n. 1907/2006 and Regulation 878/2020
Rhodiamond Ready to Use 2 g/l



Revision n. III dd 06.21.2021
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16. OTHER INFORMATION

Changes compared to the previous edition

Regulatory adaptation. Amendment to section 14

Acronim and abbreviation legend

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstract Service

Main references and data sources

ECHA's data bank on registered substances and soon to be registered substances:

<http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>

Reporting, for mixtures, which methods of evaluating the information were used for the purposes of classification.

Classification

Classification procedure

Skin Corrosive 1 A H314

Calculation method

Adequate training for workers to guarantee the protection of human health and the environment

Training on the chemical risk ex Directive 81/08 Title IX dangerous substances

Training on DPI