

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



Revision n. IV - 30.11.2022

Replaces revision n. III – 21.06.2021

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	Industrial use
Advised against uses	Check section 15

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 111 - Medical helpline operating in England, in Scotland (NHS 24) and in Wales (NHS Direct Wales)

1.5 REACH registration number A REACH registration number is not available as the product is a mixture

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 word DANGER

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 clothing. Rinse skin with water [or shower].

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



Revision n. IV - 30.11.2022
 Replaces revision n. III – 21.06.2021

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	Category codes
		classes	
Sulfuric acid CAS 7664-93-9 CE 231-639-5 INDEX 016-020-00-8 N.Reach: 01-2119458838-20-XXXX Specific limits: Skin Corr. 1A : C ≥ 15 % Skin Irrit. 2: H315 5% ≤ C < 15 % Eye Irrit. 2: H319 5% ≤ C < 15 % ATE: not applicable M factors: not applicable	3 ≤ conc ≤ 15	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. IV - 30.11.2022

Replaces revision n. III – 21.06.2021

Eye contact Immediately rinse the eyes with plenty of water until the irritation subsides. Do not use eye drops or ointments. Consult an ophthalmologist specialist

Reccomendation:

- **Need to see a doctor immediately** YES
- **Possibility of delayed effects following exposure** YES
- **Move the exposed individual from the place of exposure to the open air** YES
- **Remove the clothing and shoes of the exposed individual** YES
- **How to handle contaminated clothing** With gloves
- **For those providing first aid, wear PPE** YES

4.2 Most important symptoms and effects, both acute and delayed

Eye, nose and throat irritation, chest pain, choking, skin irritation, corneal burns, skin burn (after severe exposure), nausea, vomiting: Abundant and bleeding mucous secretions, bronchitis, pulmonary edema, corneal necrosis, tissue necrosis, perforation of the gastrointestinal tract.

4.3 Indication of any immediate medical attention and special treatment needed

Consult a physician immediately. Emergency showers and eye washing systems must be available in the workplace.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Water spray, carbon dioxide, foam

Non suitable extinguishing media: None in particular

5.2 Special hazards arising from the substance or mixture

If involved in a fire it can develop sulfur oxides, toxic for inhalation.

5.3 Advice for firefighters

General information Prevent the water used to extinguish the fire from flowing into the sewer, groundwater or surface water. Cool containers at risk with water.

Equipment Normal fire-fighting clothing, such as self-contained open-circuit compressed air breathing apparatus (EN137), flame retardant suit (EN469), flame retardant gloves (EN659) and firefighter boots (HOA29 or A30)

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

6.1.1. For non-emergency personnel

Immediately move away from the contaminated area and keep upwind.

6.1.2. For emergency responders

Use:

Gloves for chemical risks compliant with EN420 EN374 Standards

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

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



Revision n. IV - 30.11.2022

Replaces revision n. III – 21.06.2021

- 6.3 Prevent infiltration into the sewer, groundwater and surface water of the washing water.
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.
7.2.2. Control of weather conditions, ambient pressure, temperature, sunlight, humidity, and vibration
Store in a cool, dry place.
7.2.3. Conditions for keeping substances / mixtures intact
The packages must be well closed and labeled.
7.2.4. 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
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

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



Revision n. IV - 30.11.2022

Replaces revision n. III – 21.06.2021

- 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

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

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



Revision n. IV - 30.11.2022

Replaces revision n. III – 21.06.2021

	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
	Skin corrosion/irritation	Corrosive to the skin and mucous membranes.
	Serious eye damage/irritation	Strongly corrosive
	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
11.2	Information on other hazards	
	None	
12.	ECOLOGICAL INFORMATION (sulfuric acid)	
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

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



Revision n. IV - 30.11.2022

Replaces revision n. III – 21.06.2021

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
	<i>Reg. (CE) 1907/2006/CE Reach art. 59 – Candidate List of Substances of Very High Concern (SVHC)</i>	NO
	<i>Reg. (CE) 1907/2006/CE Reach - Annex XIV – Authorisation List</i>	NO
	<i>Reg. (CE) 1907/2006/CE Reach - Annex XVII – Restriction List</i>	Limited use
	https://echa.europa.eu/it/substances-restricted-under-reach	Item 3 - 75 (check link)
15.2	Chemical safety assessment A chemical safety assessment was not carried out	

16. OTHER INFORMATION

Changes compared to the previous edition

Regulatory adaptation.

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 PPE