

**Safety data sheet**  
**According to Regulation no. 1907/2006 and Regulation 878/2020**  
**RHODIUM TRICHLORIDE SOLUTION**



Revision n. 3 – 04.09.2025  
Replaces revision 3 – 02.04.2024

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

## 1.1 Product identifier

Trading name Rhodium trichloride solution  
Product code 526

## 1.2 Relevant identified uses of the substance and uses advised against

Recommended uses: industrial use. Catalyst for synthesis  
Uses advised against: 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  
Phone +39 055311861  
Fax +39 055311791  
Person responsible for the safety data lorenzo.magaldi@faggi.it

<b>1.4</b>	Emergency telephone number	111 - Medical helpline operating in England, in Scotland (NHS 24) and in Wales (NHS Direct Wales)
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**1.5 Registration number** A REACH registration number is not available for this substance as it is a mixture.

## 2. HAZARDS IDENTIFICATION

## 2.1 Classification of the mixture according to Regulation (EC) No 1272/2008

Hazard classes	Category codes	Hazard warnings
Metal Corrosive	1	H290
Skin corrosive	1A	H314
Eye Dam.	1	H318
Skin. Sens.	1	H317
STOT SE	3	H335
Muta	2	H341
Aquatic acute	2	H411

## 2.2 Label elements

## **Pictograms**



<b>Signal word</b>	<b>DANGER</b>	
<b>Hazard statements</b>	H290	May be corrosive to metals
	H314	Causes severe skin burns and eye damage
	H318	Causes serious eye damage
	H317	May cause an allergic skin reaction
	H335	May cause respiratory irritation

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	H341	Suspected of causing genetic defects
	H411	Toxic to aquatic life with long lasting effects
<b>Precautionary statements</b>	P270	Do not eat, drink or smoke when using this product
	P280	Wear protective gloves/clothing. Protect your eyes/face.
	P303+P361+P353	IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water/shower
	P305+P351+P388	IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
	P301+P330+P331	IF SWALLOWED: rinse mouth. Do not induce vomiting
	P304+P340	IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing.

### 2.3 Other hazards

DOES NOT contain PBT/vPvB substances as defined in Regulation (EC) 1907/2006, Annex XIII  
 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 set out 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	Hazard warnings
Rhodium (III) chloride trihydrate CAS: 20765-98-4 EC: 606-630-8 Index Number: not available ATE (oral): LD50 753 - 1257 mg/kg bw (rat) M-factor acute: 1 M-factor chronic: 1	5%≤ C ≤ 10%	Met. Corr. 1 Acute Tox. 4 Skin Irr. Skin sens. Eye Dam. 1 Muta 2	H290 H302 H315 H317 H318 H341
<b>Hydrochloric acid</b> CAS 7647-01-0 EC: 231-595-7 INDEX: 017-002-01-X REACH No. 01-211948862-27-XXXX	25% ≤ C ≤ 50%	Aquatic Acute 1 Aquatic Chronic 1 Met. Corr. 1 Skin Corr. 1 A STOT SE 3	H400 H410 H290 H314 H335

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ATE: not applicable

**Specific limits:**

**C ≥ 25 %**

Eye damage 1

Corrosive to metals 1

Acute target organ toxicity single exposure 3

Skin corrosion 1A

**10 % ≤ C < 25 %**

Eye damage 1

Corrosive to metals 1

Acute target organ toxicity single exposure 3

Skin corrosion 1B

**1 % ≤ C < 10 %**

Eye damage 1

Corrosive to metals 1

**0.1 % ≤ C < 1 %**

Corrosive to metals 1

**4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

Inhalation	Keep the person affected at rest in a well-ventilated and warm area. In the event of respiratory arrest, administer artificial respiration
Ingestion	Do not induce vomiting. Drink plenty of water and consult a doctor
Skin contact	Immediately wash skin with plenty of water. Seek medical attention
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Do not use eye drops or creams. Seek medical attention.

**Recommendations:**

- **Seek medical attention immediately** YES
- **Possibility of delayed post-exposure effects** YES
- **Move the exposed individual from the place of exposure to fresh air** YES
- **Remove the exposed individual's clothing and shoes** YES
- **Method for handling contaminated clothing** Wear gloves
- **For first responders, wear PPE** YES

**4.2 Most important symptoms and effects, both acute and delayed**

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

**4.3 Indication of any immediate medical attention and special treatment needed**

Seek medical attention immediately. Emergency showers and eyewash systems must be available at the workplace.

**5. FIRE-FIGHTING MEASURES**

**5.1 Extinguishing media**

Suitable extinguishing media Water spray, carbon dioxide, foam

Unsuitable extinguishing media None in particular

**5.2 Special hazards arising from the substance or mixture**

In case of fire, hydrochloric acid may form which is toxic if inhaled. The product reacts with metals forming hydrogen which is highly flammable.

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**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 hazardous containers with water.
Equipment	Normal fire-fighting clothes and equipment, such as self-contained breathing apparatus (EN 137), firefighting protective clothing (EN469), gloves (EN 659) and boots (HO A29 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 stay upwind.

**6.1.2. *For emergency responders***

Wear:

Chemical hazard safety gloves conforming to EN420 EN374

Full set of clothing according to UNI EN 13034:2006

Half-face masks with filters ABEK2P3 R conforming to EN14387:2004 + a1:2008

**6.2 Environmental precautions**

Prevent entry into sewers, groundwater and surface water

**6.3 Methods and material for containment and cleaning up**

**6.3.1 *Recommendations on how to contain a spill***

Contain the spill with appropriate absorbent material (sand, sawdust) and place in an airtight container.

**6.3.2 *Recommendations on how to clean up after a spill***

Wash the contaminated zone using plenty of water.

**6.3.3 *Any other information***

None.

**6.4 Reference to other sections**

None

**7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

**7.1.1. *Recommendations for safe handling of the substance or mixture, such as fire containment and prevention measures and the formation of aerosols and dust***

Keep in closed and labelled original packaging

**7.1.2. *General recommendations on occupational 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**

Store away from bases, strong oxidising agents and metals.

**7.2.1 *Management of risks related to explosive atmospheres, corrosive conditions, flammability hazards, incompatible substances and mixtures, evaporation conditions, potential ignition sources***

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

**7.2.2 *Containment of the effects of weather conditions, pressure, temperature, sunlight, humidity and vibrations***

Store in a cool, dry place.

**7.2.3 *Conditions for keeping substances / mixtures intact***

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The packaging must be tightly closed and labelled.

**7.2.4. *Provisions relating to ventilation, specific design of storage rooms or containers, quantitative limits under storage conditions, compatibility of packaging***

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

**7.3 Specific end use(s)**

Industrial use. Catalyst for synthesis

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**SUBSTANCE: HYDROCHLORIC ACID**

**DNEL**

Workers

Systemic effects for long-term exposure – inhalation: no hazard identified

Systemic effects for short-term exposure – inhalation: no hazard identified

Local effects for long-term exposure – inhalation: 8 mg/m<sup>3</sup>

Local effects for short-term exposure – inhalation: 15 mg/m<sup>3</sup>

Systemic effects for long-term exposure – dermal: no hazard identified

Systemic effects for short-term exposure – dermal: no hazard identified

Local effects for long-term exposure – dermal: High hazard (no derived threshold)

Local effects for short-term exposure – dermal: High hazard (no derived threshold)

Hazards for eyes: Moderate risk (no derived threshold)

8-hour limit value: 5 ppm mg/m<sup>3</sup> Legislative Decree 81/08 (IT)

Short-term limit value: 10 ppm 15 mg/m<sup>3</sup> Legislative Decree 81/08

General population

Systemic effects for long-term exposure – inhalation: no hazard identified

Systemic effects for short-term exposure – inhalation: no hazard identified

Local effects for long-term exposure – inhalation: 8 mg/m<sup>3</sup>

Local effects for short-term exposure – inhalation: 15 mg/m<sup>3</sup>

Systemic effects for long-term exposure – dermal: no hazard identified

Systemic effects for short-term exposure – dermal: no hazard identified

Local effects for long-term exposure – dermal: High hazard (no derived threshold)

Local effects for short-term exposure – dermal: High hazard (no derived threshold)

Systemic effects for long-term exposure – oral: no hazard identified

Systemic effects for short-term exposure – oral: no hazard identified

Eye hazards: Moderate risk (no derived threshold)

**PNEC**

Fresh water: no hazard identified

Marine water: no hazard identified

Sewage Treatment Plant: No Hazard Identified

Sediment (Fresh Water): No Hazard Identified

Sediment (Marine Water): No Hazard Identified

Soil: No Hazard Identified

**SUBSTANCE: RHODIUM(III) CHLORIDE**

**DNEL**

Workers

Systemic effects for long-term exposure – inhalation: 0.94 mg/m<sup>3</sup>

Systemic effects for short-term exposure – inhalation: no hazard identified

Local effects for long-term exposure – inhalation: moderate hazard (no threshold derived)

Local effects for short term exposure – inhalation: moderate hazard (no threshold derived)

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Systemic effects for long-term exposure – cutaneous: 2.7 mg/kg bw/day  
Systemic effects for short-term exposure – cutaneous: no hazard identified Local effects for long-term exposure – cutaneous: High risk (no threshold derived)  
Local effects for short-term exposure – skin: High risk (no threshold derived)  
Eye Hazards: Moderate Risk (no threshold derived)

General population

Risk unknown but no further information is necessary as no exposure is expected

**PNEC**

Fresh water: 0.29 µg/L

Sea water: 0.029 µg/L

Sewage treatment plant: 14.6 mg/L

Sediment (freshwater): 4.37 mg/kg sediment dry weight

Sediment (seawater): 0.44 mg/kg sediment dry weight

Soil: 0.001 mg/kg dry weight of soil

**8.2**

**8.2.1 Appropriate technical measures**

Ventilation systems. Emergency showers and eyewash system near the work area.  
Periodically check the flow rate of the suction hood.

**8.2.2 Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Splash safety goggles conforming to Directive 89/686/EEC and EN166:2001

**Skin protection (hands)**

Chemical gloves according to EN 420 EN 374

Glove material: fluoro rubber, butyl rubber, chloroprene, nitrile rubber, PVC, latex

Material thickness: 0.5 mm

Penetration time: ≥ 60 min DIN EN374 method

**Skin protection (body)**

Complete clothing according to UNI EN 13034:2006

**Respiratory protection**

Half-face masks with filters ABEK2P3 R conforming to EN14387:2004 + a1:2008

Information not available

**Thermal hazards**

**8.2.3 Environmental exposure controls**

Keep all environments equipped with suction systems using localised collection systems and ambient air exchange systems. Convey the aspirated volumes to an abatement system and then to the atmosphere. Do not use air recirculation suction systems. Avoid any spillage into the environment.

**PHYSICAL AND CHEMICAL PROPERTIES**

**9.**

**9.1**

**Information on basic physical and chemical properties**

Physical state Liquid

Colour Reddish brown

Odour Pungent, irritating

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	Melting point/freezing point	Approx. -50°C
	Boiling point or initial boiling point and boiling range	Approx. 107 °C
	Flammability	Non-flammable
	Lower and upper limits of explosiveness	Non-explosive
	Flash point	Non-flammable
	Auto-ignition temperature	Non-flammable
	Decomposition temperature	Not applicable
	pH	Undefined
	Kinematic viscosity	1.73 mm <sup>2</sup> /s at 20 °C
	Solubility	Completely soluble in water
	Partition coefficient n-octanol/water (log value)	Not applicable
	Vapour pressure	12 hPa at 25 °C
	Density and/or relative density	1.3 g/ml
	Relative vapour density	Data not available
	Particle characteristics	Not applicable
<b>9.2</b>	<b>Other information</b>	
	None	
<b>10.</b>	<b>STABILITY AND REACTIVITY</b>	
<b>10.1</b>	<b>Reactivity</b>	Hydrochloric acid is a strong acid with corrosive action with numerous metals. May produce corrosive vapours
<b>10.2</b>	<b>Chemical stability</b>	Stable under normal storage conditions
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	Hydrochloric acid can react with oxidising products (peroxides, permanganates, chromates, persulfates etc.) generating toxic gases. Reacts with metals generating hydrogen with heat production; risk of explosion. May produce chlorine due to the effect of light or other catalysts. Reacts violently with bases and amines
<b>10.4</b>	<b>Conditions to avoid</b>	Exposure to heat and sunlight.
<b>10.5</b>	<b>Incompatible materials</b>	Strong bases, oxidising agents, metals
<b>10.6</b>	<b>Hazardous decomposition products</b>	Does not decompose but may generate hydrochloric acid vapours
<b>11.</b>	<b>TOXICOLOGICAL INFORMATION</b>	
<b>11.1</b>	<b>Information on hazard classes as defined in Regulation (EC) No 1272/2008</b>	
	<b>Acute toxicity</b>	<b>MIXTURE:</b> LD50 (rat) (oral): 7530 mg/kg bw
	<b>Skin corrosion/irritation</b>	<b>MIXTURE:</b> Skin corrosive
	<b>Serious eye damage/eye irritation</b>	<b>MIXTURE:</b> Risk of serious eye damage. Rabbit 0.5 ml Cat. 1 (irreversible effects on eyes)

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	<b>Respiratory or skin sensitisation</b>	<b>MIXTURE:</b> May cause an allergic skin reaction
	<b>Germ cell mutagenicity</b>	<b>MIXTURE:</b> Suspected of causing mutations
	<b>Carcinogenicity</b>	<b>MIXTURE:</b> Based on available data the classification criteria are not met
	<b>Reproductive toxicity</b>	<b>MIXTURE:</b> Based on available data the classification criteria are not met
	<b>Specific target organ toxicity (STOT) single exposure</b>	<b>MIXTURE:</b> Highly irritating to the respiratory tract and lungs
	<b>Specific target organ toxicity (STOT) repeated exposure</b>	<b>MIXTURE:</b> Based on available data the classification criteria are not met
<b>11.2</b>	<b>Information on other hazards</b>	
	None	
<b>12.</b>	<b>ECOLOGICAL INFORMATION (Hydrochloric acid)</b>	
<b>12.1</b>	<b>Toxicity</b>	<b>Substance: Rhodium trichloride</b> LC50 (fish): 220 mg/l/96h EC50 (invertebrates): 290 µg/l/48h EC50 (algae): 4.5 mg/l/72h
<b>12.2</b>	<b>Persistence and degradability</b>	<b>Mixture:</b> LC50 (fish): 2200 mg/l/96h EC50 (invertebrates): 2.9 mg/l/48h EC50 (algae): 45 mg/l/72h It is not biodegradable and dissociates in water. Adsorption/desorption in the soil is impossible.
<b>12.3</b>	<b>Bioaccumulation potential</b>	Insignificant given the high solubility in water
<b>12.4</b>	<b>Mobility in soil</b>	Does not reach sediment / soil and therefore cannot be ingested by birds or mammals
<b>12.5</b>	<b>Results of PBT and vPvB assessment</b>	Not applicable
<b>12.6</b>	<b>Properties of interference with the endocrine system</b>	No known effects
<b>12.7</b>	<b>Other adverse effects</b>	No known effects

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<b>13.</b>	<b>DISPOSAL CONSIDERATIONS</b>	
<b>13.1</b>	<b>Waste treatment methods</b>	
The substance and its packaging must be disposed of as hazardous waste by authorised companies.		
<b>14.</b>	<b>TRANSPORT INFORMATION</b>	
<b>14.1</b>	<b>UN number or ID number</b>	
<b>14.2</b>	<b>Official UN shipping name</b>	
	ADR/RID ADN ICAO/IATA/IMDG	Inorganic liquid, corrosive, acidic, n.o.s. (hydrochloric acid, rhodium trichloride)
<b>14.3</b>	<b>Transport hazard class(es)</b>	
	ADR/RID/ADN/IMDG/ICAO-IATA: Class	8
	ADR/RID/ADN/IMDG/ICAO-IATA: Label	8 + mark environmental hazard
	ADR: Tunnel restriction code	(E)
	IMDG - EmS:	F-A, S-B
<b>14.4</b>	<b>Packing group</b>	
<b>14.5</b>	<b>Dangers for the environment</b>	
	ADR/RID/ADN/ICAO-IATA:	yes
	IMDG: Marine Contaminant:	yes
<b>14.6</b>	<b>Special precautions for users</b>	
	Transport must be carried out by vehicles authorized for the transport of dangerous goods according to the provisions of the current edition of the A.D.R. Agreement. and the applicable national provisions. Transport must be carried out in the original packaging and, in any case, in packaging which is made of materials which cannot be attacked by the contents, and which are not likely to generate dangerous reactions. Those responsible for loading and unloading dangerous goods must have received appropriate training on the risks presented by the preparation and on any procedures to be adopted in the event of emergency situations.	
<b>14.7</b>	<b>Maritime transport in bulk according to IMO instruments</b>	
	Bulk transport is not foreseen	
<b>15.</b>	<b>REGULATORY INFORMATION</b>	
<b>15.1</b>	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	<b>Applicability</b>
	<i>Reg. (EC) 1907/2006/EC Reach</i>	YES
	<i>Reg. (EC) 1272/2008 CLP and subsequent amendments and additions</i>	YES
	<i>Reg. (EC) 2037/2000 "Substances that deplete the ozone layer"</i>	NO
	<i>Reg. (EC) 850/2004 "Persistent organic pollutants"</i>	NO
	<i>Reg. (EC) 689/2008 "export and import of hazardous chemicals"</i>	NO
	<i>Substance listed in Annex I of Dir. 2012/18/EU cd Seveso</i>	NO
	<i>Italian Legislative Decree 81/2008 Consolidated law on health and safety in the workplace</i>	YES
	<i>Directive 2014/103/EU "ADR"</i>	YES
	<i>Reg. (EC) 1907/2006/EC Reach art. 59 – Candidate List of Substances of Very High Concern (SVHC)</i>	NO

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	<b>Reg. (EC) 1907/2006/EC reach - Annex XIV - substances subject to authorisation</b>	NO
	<b>Reg. (EC) 1907/2006/EC reach - Annex XVII - Restrictions on certain dangerous substances</b>	Limited Usage Item 3 -75 (see link)
	<a href="https://echa.europa.eu/en/substances-restricted-under-reach">https://echa.europa.eu/en/substances-restricted-under-reach</a>	
<b>15.2</b>	<b>Chemical safety assessment</b> A chemical safety assessment has not been carried out	
<b>16.</b>	<b>OTHER INFORMATION</b> <b>Changes made since the previous issue</b> Changes to sections 3 – 11 – 14 - 16 <b>Key of abbreviations and acronyms</b> ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways GHS: Globally Harmonized System of Classification and Labeling of Substances EINECS: European Inventory of Chemical Substances CAS: Chemical Abstract Service STA: Acute Toxicity Estimate PBT: Persistent, Bioaccumulative and Toxic. vPvB: (very persistent and very bioaccumulative). Very persistent and very bioaccumulative LD: lethal dose PNEC: predicted no effect concentration DNEL: derived no effect level TLV (ceiling value): threshold limit value STEL: short-term exposure limit EU-OEL: European occupational exposure limit TWA: time-weighted average EC: effective concentration NOAEL: no observed adverse effect level LC: lethal concentration NOEC: no observed effect concentration LOEC: lowest observed effect concentration Bw: body weight Koc: organic carbon-water partition coefficient <b>Main bibliographical references and data sources</b> ECHA database on registered substances and substances being registered: <a href="https://chem.echa.europa.eu/">https://chem.echa.europa.eu/</a> <b>Reporting, for mixtures, of which methods of information assessment have been used for classification purposes</b>	
	<b>Classification</b>	<b>Classification procedure</b>
	Metal Corrosive 1	calculation
	Skin corrosive 1 A	calculation
	STOT SE 3	calculation
	Aquatic chronic 1	calculation
	Skin Sensitive 1	calculation

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Eye Dam. 1

calculation

Muta. 2

calculation

**Appropriate training for workers to ensure the protection of human health and the environment**

Chemical Risk Training pursuant to Legislative Decree 81/08 Title IX dangerous substances

PPE training