

## Safety data sheet



### Au chloride solution

According to Regulation n. 1907/2006 and Regulation 878/2020

Au chloride solution 200 g Au/l (HAuCl<sub>4</sub>)

Revision XI – 21.03.2025

Replaces revision X – 03.07.2023

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

##### 1.1 Product identifier

Chemical name Au chloride solution 200 g Au/l  
Product code 121  
UFI code 3DA0-605Y-X00X-QV9T

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

Recommended uses Industrial use. Additive for electroplating  
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  
Telephone number 055311861  
Fax number 055311791  
Competent person lorenzo.magaldi@faggi.it  
responsible for the safety data sheet

##### 1.4 Emergency telephone number

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

##### 1.5 Registration number

A REACH registration number is not available as this product is a mixture.

#### 2. HAZARDS IDENTIFICATION

##### 2.1 Classification of the mixture according to Regulation (EC) n. 1272/2008

Hazard class	Category codes	Hazards indications
Met Corr	1	H290
AcuteTox.	4	H302
Skin Corr.	1 A	H314
Eye Dam.	1	H318
STOT SE	3	H335
STOT RE	2	H373
Aquatic Chronic	2	H411
Corrosive for the respiratory tract		EUH071

##### 2.2 Label elements

###### Pictograms



###### Signal word

DANGER

###### Hazard statements

H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes serious skin burns and serious eye injuries
H335	Can irritate the respiratory tract

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	H373	May cause damage to organs through prolonged or repeated exposure
	H411	Toxic to aquatic life with long lasting effects
	EUH071	Corrosive for the respiratory tract
<b>Precautionary advice</b>		
	P260	
	P280	Wear protective gloves / clothing / eye protection / face protection
	P301+P330+P331	IF SWALLOWED: rinse mouth. DO NOT induce vomiting
	P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
	P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water [or shower]
	P310	Immediately call a POISON CENTER or doctor/physician

#### UFI code

3DA0-605Y-X00X-QV9T

#### 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 %	Classifications	
		Hazard Classes	Category codes
Tetrachloroauric acid	20 ≤ C ≤ 25%	Met. corr. 1	H290
CAS: 16903-35-8		Acute tox. 4	H302
EC: 240-948-4		Skin corr 1B	H314
INDEX: not available		Eye dam 1	H318
N. REACH: exempt for quantity		STOT RE 2	H373
ATE (oral) LD50 464 mg/kg bw		Aq. Chronic 2	H411
M factor (chronic): 1			EUH071
Hydrochloric acid	25 ≤ C ≤ 30%	Met corr. 1	H290
CAS 7647-01-0		Skin. corr. 1A	H314
EC: 231-595-7		Eye corr. 1	H318
INDEX: 017-002-01-X		STOT SE 3	H335

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REACH No. 01-211948862-27-XXXX

ATE: not applicable

Specific limits:

$C \geq 25 \%$

Eye damage 1

Corrosive to metals 1

Acute target organ toxicity single exposure 3

Skin corrosion 1A

$10 \% \leq C < 25 \%$

Eye damage 1

Corrosive to metals 1

Acute target organ toxicity single exposure 3

Skin corrosion 1B

$1 \% \leq C < 10 \%$

Eye damage 1

Corrosive to metals 1

$0.1 \% \leq C < 1 \%$

Corrosive to metals 1

#### 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
Contact with skin	Immediately wash skin with plenty of water. Consult a physician
Contact with eyes	Immediately rinse the eyes with plenty of water until the irritation subsides. Do not use eye drops or ointments. Consult an ophthalmologist specialist

Recommendations:

- 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 first aiders, 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	Prevent the water used to extinguish the fire from flowing into the sewer, groundwater or surface water.
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Unsuitable extinguishing media      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)

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

If involved in a fire it can develop hydrochloric acid, toxic for inhalation. The product reacts with metals to develop hydrogen, which is highly flammable.

#### 5.3 Advice for firefighters

Prevent the water used to extinguish the fire from flowing into the sewer, groundwater or surface water.

General information

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)

Equipment

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Keep away from contaminated area and keep upwind

##### 6.1.2. For emergency responders

Wear:

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

Prevent infiltration into the sewer, groundwater and surface water

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

##### 6.3.1. Advice in order to contain a spill

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

##### 6.3.2. Advice in order to clean-up a spill

Wash the area with plenty of water

##### 6.3.3 Other information

None

#### 6.4 Reference to other sections

None

### 7. HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

**7.1.1. Recommendations to enable the substance or mixture to be handled safely, such as containment measures and prevention of fires and the formation of aerosols and dust**

Store in original and labeled packaging.

##### 7.1.2. General recommendations 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 Safe storage, including any incompatibilities

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

Keep the container tight and sealed until use. Keep away from acid substances.

**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**

Open containers must be resealed and kept straight

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

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. Additive for electroplating

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters for tetrachloroauric acid**

### **DNEL**

#### Workers

Systemic effects for long-term exposure – inhalation: 0.14 mg/m<sup>3</sup>

Systemic effects for short-term exposure – inhalation: Hazard unknown but no further information is needed as no exposure is expected

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

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

Systemic effects for long-term exposure – dermal: 0.04 mg/kg body weight per day

Systemic effects for short-term exposure – dermal: Hazard unknown but no further information is needed as no exposure is expected

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

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

Eye hazards: High risk (no derived threshold) derivative)

#### General population

Systemic effects for long-term exposure – inhalation: 0.035 mg/m<sup>3</sup>

Systemic effects for short-term exposure – inhalation: Hazard unknown but no further information is needed as no exposure is expected

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

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

Systemic effects for long-term exposure – dermal: Hazard unknown but no further information is needed as no exposure is expected

Systemic effects for short-term exposure – dermal: Hazard unknown but no further information is needed as no exposure is expected

Local effects for long-term exposure – dermal: Hazard unknown but no further information is needed as no exposure is expected

Local effects for short-term exposure – dermal: Hazard unknown but no further information is needed as no exposure is expected

Systemic effects for long-term exposure term – oral: Hazard unknown but no further information is needed as no exposure is expected

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Short-term systemic effects – oral: Hazard unknown but no further information is needed as no exposure is expected

Eye hazards: No hazards identified

#### **PNEC**

Freshwater: 1.04 µg/L

Marine water: 0.104 µg/L

Sewage treatment plant: 0.2 mg/L

Sediment (freshwater): 20.45 mg/kg sediment dry weight

Sediment (marine water): 20.45 mg/kg sediment dry weight

Soil: 4.15 mg/kg soil dry weight

#### **Control parameters for 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

## **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**

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<b>Eye/face protection</b>	Splash goggles compliant with Directive 89/686 / EEC and standard EN166: 2001
<b>Skin protection (hands)</b>	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
<b>Skin protection (body)</b>	Complete clothing compliant with the UNI EN 13034: 2006 type 6 standard
<b>Respiratory protection</b>	Filter masks with filter type E in case of exceeding TWA MAK limits
<b>Thermal hazards</b>	Splash goggles compliant with Directive 89/686 / EEC and standard EN166: 2001

#### 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 recirculating air 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
Color	Orange
Odor	Pungent
Melting point / freezing point	Unavailable
Boiling point or initial boiling point and boiling range	Unavailable
Flammability	Not inflammable
Lower and upper explosive limits	Not applicable
Flash point	Not applicable
Self-ignition temperature	Not applicable
Decomposition temperature	Not applicable
pH	<1
Cinematic viscosity	Undefined
Solubility	Fully miscible in water

Production coefficient n-octanol / water (logarithmic value)	Not applicable
Vapor pressure	Not applicable
Density and / or relative density	3.9 g / cm <sup>3</sup>
Relative vapor density	12.6 KPa
Characteristics of the particles	Not applicable

### 9.2. Other information

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10	None
	<b>STABILITY AND REACTIVITY</b>
	<b>10.1 Reactivity</b> Hydrochloric acid is a strong acid with corrosive action with numerous metals. It can produce corrosive vapors
	<b>10.2 Chemical stability</b> Stable under normal storage conditions
	<b>10.3 Possibility of hazardous reactions</b> The product reacts with: <ul style="list-style-type: none"><li>- common construction metals with evolution of highly flammable hydrogen gas,</li><li>- alkali and organic bases with violent evolution of heat,</li><li>- lime stone, marble, dolomite and other carbonic minerals with evolution of suffocating CO<sub>2</sub> gas,</li><li>- strong oxidants (bleaching agents, conc. H<sub>2</sub>O<sub>2</sub>, HNO<sub>3</sub>, etc. and their salts, chromates, permanganates, etc) with evolution of toxic chlorine gas,</li><li>- sulphides with evolution of toxic H<sub>2</sub>S gas,</li><li>- sulphites, hydrogen sulphites and pyro sulphites with evolution of toxic SO<sub>2</sub> gas,</li><li>- with sodium azide to highly toxic and explosive hydrazoic acid,</li><li>- any other chemical, that is prone to (dangerous) reaction/decomposition with acids</li></ul>
	<b>10.4 Conditions to avoid</b> Exposure to heat and sunlight
	<b>10.5 Incompatible materials</b> Strong bases, metals
11	<b>10.6 Hazardous decomposition products</b> By heating evolution of corrosive and toxic hydrogen chloride gas
	<b>TOXICOLOGICAL INFORMATION</b>
	<b>11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008</b>
	<b>Acute toxicity</b> <u>Tetrachloroauric acid</u> LD50 (oral) (rat): 464 mg/kg bw
	<b>Skin corrosion / irritation</b> Corrosive to the skin
	<b>Serious eye damage/irritation</b> Risk of serious eye damage.
	<b>Respiratory or skin sensitization</b> Rabbit 0.5 ml Cat. 1 (irreversible effects on the eyes)
	<b>Germ cell mutagenicity</b> Based on available data, the classification criteria are not met
	<b>Carcinogenicity</b> Based on available data, the classification criteria are not met
	<b>Reproductive toxicity</b> Based on available data, the classification criteria are not met
	<b>STOT – single exposure</b> May cause irritation/corrosion of lungs and respiratory tract
	<b>STOT – repeated exposure</b> May cause kidney damage
	<b>11.2 Information on other hazards</b> None



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### 12 ECOLOGICAL INFORMATION

12.1

#### Toxicity

#### Substance:

Tetrachloroauric acid  
LC50-96h(trout): 15.7 mg/L  
EC50-48h(daphnia) 1.04 mg/L

#### Mixture:

EC50: 4.16 mg/l

12.2

#### Persistence and degradability

It is not biodegradable and dissociates in water. Adsorption / desorption in the soil is impossible. Insignificant given the high solubility in water

12.3

#### Bioaccumulative potential

12.4

#### Mobility in soil

It does not reach sediment / soil and therefore cannot be ingested by birds or mammals

12.5

#### Results of PBT and vPvB assessment

Not applicable

12.6

#### Endocrine disrupting properties

No known effects

12.7

#### Other adverse effects

No known effects

### 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

3264

14.2

#### Official UN shipping name

Liquid, inorganic, corrosive, acid, n.o.s.  
(hydrochloric acid, tetrachloroauric acid)

14.3

#### Transport hazard class

ADR/RID/IMDG/ICAO-IATA: Class: 8

ADR/RID/IMDG/ICAO-IATA: Label: 8 + mark environmental hazard

ADR: Tunnel restriction code (E)

IMDG - EmS: F-A, S-B

14.4

#### Packing group

II

14.5

#### Dangers for the environment

ADR/RID/ICAO-IATA: YES

IMDG: Marine Contaminant: YES

14.6

#### Special precautions for users

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

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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.  
No bulk transport is foreseen

#### 14.7 Maritime transport in bulk according to IMO

#### 15 REGULATORY INFORMATION

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

##### Applicability

Reg. (EC) 1907/2006 / EC Reach	YES
Reg. (EC) 1272/2008 CLP and subsequent changes and additions	YES
Reg. (CE) 2037/2000 "Substances that deplete the ozone layer"	NO
Reg. (EC) 850/2004 "Persistent organic pollutants"	NO
Reg. (EC) 689/2008 "export and import of dangerous chemicals"	NO
Substance listed in Annex I of Dir. 2012/18 / EU so-called Seveso	NO
Legislative Decree 81/2008 Consolidated Law on health and safety at work	YES
Directive 2014/103 / EU "Adr"	YES
Reg. (CE) 1907/2006/CE Reach art. 59 – Candidate List of Substances of Very High Concern (SVHC)	NO
Reg. (CE) 1907/2006/CE Reach - Annex XIV – Authorisation List	NO
Reg. (CE) 1907/2006/CE Reach - Annex XVII – Restriction List	Restricted use.
<a href="https://echa.europa.eu/it/substances-restricted-under-reach">https://echa.europa.eu/it/substances-restricted-under-reach</a>	Item 3 - 75 (see link)

##### 15.2 Chemical safety assessment

A chemical safety assessment was not carried out

#### 16 OTHER INFORMATION

##### Changes compared to the previous edition

Changes to sections 1-2-3-8-10-11-14-16

##### Acronim and abbreviation legend

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

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

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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

#### Main references and data sources

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

<https://chem.echa.europa.eu/>

**Indication, for mixtures, of which methods of evaluation of the information have been used for the purposes of classification**

#### Classification

Met Corr	1
AcuteTox.	4
Skin Corr.	1
Eye Dam.	1
STOT SE	3
STOT RE	2
Aquatic Chronic	2

#### Classification procedure

Calculation method
Calculation method
According to 3.3.3.1.2 of Annex I to CLP
According to 3.3.3.1.2 of Annex I to CLP
Calculation method
Calculation method
Calculation method

**Adequate training for workers in order 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