

**Safety data sheet**  
**According to Regulation n. 1907/2006 and Regulation 878/2020**  
**SODIUM TETRACHLOROPALLADATE 20% IN WATER**



Revision n. 1 – 25.03.2026

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

**1.1 Product identifier**

Commercial name Sodium tetrachloropalladate 20% in water  
 Product code 358  
 UFI code ERY0-40S2-J007-GSE3

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

Intended uses Industrial use. Galvanic and pharmaceutical sector  
 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 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** Exempt under Article 6(1)

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

Hazard classes	Category codes	Hazard statements
Met. Corr.	1	H290
Acute Tox.	4	H302
Eye Dam.	1	H318
Skin Sensitive	1 A	H317
Aquatic chronic	1	H400
Aquatic acute	1	H410

**2.2 Label elements**

**Pictograms**



**Signal word**

**DANGER** (disodiumtetrachloropalladate)

**Hazard statements**

H290	May be corrosive to metals
H302	Harmful if swallowed
H318	Causes serious eye damage
H317	May cause an allergic skin reaction
H410	Very toxic to aquatic life with long lasting effects
<b>Precautionary statements</b>	
P270	Do not eat, drink or smoke during use
P273	Avoid release to the environment

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P280 Wear protective gloves / clothing. Protect eyes / face  
P305+P351+P338 IN CASE OF CONTACT WITH THE EYES: rinse thoroughly for several minutes. Remove any contact lenses if easy to do. Continue rinsing  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

**2.3 UFI code** ERY0-40S2-J007-GSE3  
**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 and category codes	Indications of danger
<b>Disodium tetrachloropalladate</b> CAS: 13820-53-6 EC: 237-502-6 Index number: not available Nr. REACH: Exempt for quantity ATE: LD50 (oral): 500 mg/kg bw (rat) M factor acute: 100 M factor chronic: 10	50 % ≤ C ≤ 60 %	Met. Corr. 1 Acute Tox. 4 Skin Sens. 1 Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 1	H290 H302 H317 H318 H400 H410
<b>Water</b> CAS: 7732-18-5 EC: 231-791-2	40 % ≤ C ≤ 50 %	None	None

**4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

Inhalation Bring the injured person to fresh air. Consult a physician.  
Ingestion Drink 200-300 ml of water and consult a physician.  
Contact with skin Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing and wash it before reuse.  
Contact with eyes Rinse with plenty of running water for at least 15 minutes Do not use eye drops or ointments. Consult a physician.

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Recommendations:	YES
• 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	With gloves
• How to handle contaminated clothing	YES
• For first aiders, wear PPE	YES

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

Eye damage. Skin and eye irritation. Allergic reactions.

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

Consult a doctor 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
Unsuitable extinguishing media	None in particular. Use extinguishing measures to suit surroundings.

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

In case of fire it can develop chlorides.

**5.3 Advice for firefighters**

General informations	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**

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 keep in hermetic sealed container

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

Wash the area with plenty of water

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

Keep in original closed and labeled container

**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, strong oxidants 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 dry and cool place.

**7.2.3. *Conditions to maintain the integrity of the substance or mixture***

Packages must be kept 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 the containment basin.

**7.3. Specific end use(s)**

Industrial use. Additive for electroplating. Catalyst production.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**SUBSTANCE: DISODIUM TETRACHLOROPALLADATE**

**DNEL**

Workers

Systemic effects for long-term exposure – inhalation: 12.8 mg/m<sup>3</sup>

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

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

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

Systemic effects for long-term exposure – dermal: 18.1 mg/kg bw/day

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: Medium hazard (no derived threshold)

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General population

Hazard unknown but no further hazard information necessary as no exposure expected

**PNEC**

Freshwater: 0.027 µg/L

Marinewater: 0.003 µg/L

Sewage Treatment Plant: 1.46 mg/L

Sediment (freshwater): 0.274 mg/kg dry sediment

Sediment (marinewater): 0.027 mg/kg dry sediment

Soil: 0.012 mg/kg dry soil

**8.2.**

**Exposure controls**

**8.2.1. *Appropriate engineering controls***

Ventilation systems. Emergency showers and eye washing system near the work area. Periodically check the range of the extractor hood.

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

**Eye/face protection**

Protective goggles for eyes compliant with Directive 89/686 / EEC and with standard EN166: 2001

**Skin protection (hands)**

Chemical gloves according to EN 420 EN 374

Glove material: nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm),

Penetration time: ≥ 480 min DIN EN374 method

**Skin protection (body)**

Complete antacid clothing compliant with the UNI EN 13034: 2006

**Respiratory protection**

Respiratory protection in case of release of decomposition products. Gas filter for acid inorganic gases/vapours such as SO<sub>2</sub>, HCl (e.g. EN 14387 Type E).

**Thermal hazards**

Info 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 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
Colour	Brown red
Odour	Pungent
Melting point/freezing point	About -20 °C @ 1 atm
Boiling point or initial boiling point and boiling range	About 105 °C @ 1 atm
Flammability	Not inflammable
Lower and upper explosion limit	Not explosive
Flash point	Not inflammable
Auto-ignition temperature	Not inflammable
Decomposition temperature	Not available
pH	1.8
Kinematic viscosity	Not available

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	Solubility	Completely soluble in water
	Partition coefficient n-octanol/water (log value)	Not applicable
	Vapour pressure	Not available
	Density and/or relative density	1.6 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>	
	No hazardous reactions if stored and handled as prescribed/indicated	
<b>10.2</b>	<b>Chemical stability</b>	
	Stable under normal storage conditions	
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	
	The product is stable if stored and handled as prescribed/indicated.	
<b>10.4</b>	<b>Conditions to avoid</b>	
	Avoid heat.	
<b>10.5</b>	<b>Incompatible materials</b>	
	Avoid strong oxidising agents.	
<b>10.6</b>	<b>Hazardous decomposition products</b>	
	Chlorides	
<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>	ATE(mixture): LD50 oral: 1597 mg/kg bw (rat)
		Substance: Disodium tetrachloropalladate ATE: LD50 oral 500 mg/kg bw (rat)
	<b>Skin corrosion / irritation</b>	Mixture: Based on available data, the classification criteria are not met
	<b>Serious eye damage/irritation</b>	Mixture: Causes serious eye damage
	<b>Respiratory or skin sensitization</b>	Mixture: May cause allergic skin reaction
	<b>Germ cell mutagenicity</b>	Mixture: Based on available data, the classification criteria are not met
	<b>Carcinogenicity</b>	Mixture: Based on available data, the classification criteria are not met
	<b>Reproductive toxicity</b>	Mixture: Based on available data, the classification criteria are not met
	<b>STOT – single exposure</b>	Mixture: Based on available data, the classification criteria are not met
	<b>STOT – repeated exposure</b>	Mixture: Based on available data, the classification criteria are not met
<b>11.2</b>	<b>Information on other hazards</b>	
	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	

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with the criteria established in Regulation (EU) 2017/2100 and Regulation (EU) 2018/605.

<b>12</b>	<b>ECOLOGICAL INFORMATION (Hydrochloric acid)</b>	
<b>12.1</b>	<b>Toxicity</b>	<p><u>Mixture:</u> ESTIMATED EC50(algae): 4.06 µg Pd/L</p> <p><u>Disodium tetrachloropalladate</u>            LC10 (fish) (96h) 90.4 µg Pd/L            LC50 (fish)(96h) 154 µg Pd/L            EC50 (invertebrates) (48 h) 35.19 µg Pd/L            NOEC (invertebrates) (48 h) 20.52 µg Pd/L            NOEC (invertebrates)(21 days) ≥ 14.3 µg Pd/L            EC50 (algae) (72 h) 2.03 µg Pd/L            NOEC (algae) (72 h) 1.33 µg Pd/L</p>
<b>12.2</b>	<b>Persistence and degradability</b>	Not applicable as inorganic substances
<b>12.3</b>	<b>Bioaccumulative potential</b>	Mixture: Insignificant given the high solubility in water
<b>12.4</b>	<b>Mobility in soil</b>	Mixture: It 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>Endocrine disrupting properties</b>	No known effects
<b>12.7</b>	<b>Other adverse effects</b>	No known effects
<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 authorized companies.
<b>14</b>	<b>TRANSPORT INFORMATION</b>	
<b>14.1</b>	<b>UN number or ID number</b>	3264
<b>14.2</b>	<b>Official UN shipping name</b>	
	ADR/ADN/RID/IMDG/ICAO-IATA:	Corrosive liquid, acidic, inorganic, n.o.s. (disodium tetrachloropalladate)
<b>14.3</b>	<b>Transport hazard class</b>	
	ADR/ADN/RID/IMDG/ICAO-IATA: Class:	8
	ADR/ADN/RID/IMDG/ICAO-IATA: Label:	8 + dangerous for the environment mark (E)
	ADR: Tunnel restriction code	
	IMDG - EmS:	F-A, S-B
<b>14.4</b>	<b>Packing group</b>	III
<b>14.5</b>	<b>Dangers for the environment</b>	
	ADR/ADN/RID/ICAO-IATA:	Product dangerous for the environment
	IMDG: Marine Contaminant:	yes
<b>14.6</b>	<b>Special precautions for user</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	

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appropriate training on the risks presented by the preparation and on any procedures to be adopted in the event of emergency situations.

**14.7 Maritime transport in bulk according to IMO instruments**

Bulk transport is not foreseen

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**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	Limited 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 (check link)

**15.2 Chemical safety assessment**

A chemical safety assessment was not carried out

**16**

**OTHER INFORMATION**

**16.1 Changes compared to the previous edition**

First edition

**16.2 Acronym and abbreviation legend**

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

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LC: lethal concentration  
NOEC: no observed effect concentration  
LOEC: lowest observed effect concentration  
Bw: body weight  
Koc: organic carbon-water partition coefficient

**16.3**

**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	Classification procedure
Met. Corr. 1	Calculation
Acute Tox. 4	Calculation
Eye Dam. 1	Calculation
Skin Sensitive 1A	Calculation
Aquatic chronic 1	Calculation
Aquatic acute 1	Calculation

**16.5**

**Adequate training for workers in order to ensure the protection of human health and the environment**

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