

**Safety data sheet**  
**According to Regulation n. 1907/2006 and Regulation 878/2020**



**CHLORIDE PD SALE 60%**

Revision n. IV of 2021.10.27  
Replaces revision n III del 2019.01.21

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

**1.1 Product identifier**

Chemical name	Palladium II chloride
Product codes	117
	517
C.A.S. Registry Number	7647-10-1
EC number	231-596-2
Molecular weight	177,3 g/mol
Brute formula	PdCl <sub>2</sub>

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

Intended uses	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**

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

**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
Skin Sens.	1	H317
Eye Irrit.	1	H318
Aquatic acute	1	H400
Aquatic Chronic	1	H410

**2.2 Label elements**

**Pictograms**



**Signal words** HAZARD

**Hazard statements**

**Safety data sheet**  
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**CHLORIDE PD SALE 60%**

Revision n. IV of 2021.10.27  
Replaces revision n III del 2019.01.21

	H290	It can be corrosive to metals
	H302	Harmful if swallowed
	H317	It can cause allergic skin reactions
	H318	Causes serious eye damage
	H410	Very toxic to aquatic life with long lasting effects
<b>Precautionary statements</b>		
	P270	Do not eat, drink or smoke during use
	P280	Wear protective gloves / clothing. Protect eyes / face.
	P305+P351+P338	IN CASE OF EYE CONTACT: Rinse thoroughly for several minutes. Remove any contact lenses if easy to do. Continue rinsing.
	P310	Immediately contact a poison control center or doctor.
	P330	IF SWALLOWED: rinse mouth.
	P501	Dispose of the product / container in accordance with national 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**

**3.1** Substance : Palladium II chloride

CAS number	7647-10-1
EC number	231-596-2
INDEX number	Not available
ATE	LD50 oral 479 mg/kg bw (rat)
M factor: acute	100
Factor M: chronic	10

**4. FIRST AID MEASURES**

**4.1** Description of first aid measures

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Revision n. IV of 2021.10.27  
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Inhalation	Take the person to a very well ventilated area and consult a doctor for safety. If the person is unconscious, keep him stable on his side during transport.
Ingestion	Call a doctor immediately.
Contact with skin	Wash immediately with soap and water and rinse thoroughly.
Contact with eyes	Rinse with plenty of running water for at least 15 minutes while keeping the eyelids open (remove contact lenses if it is easy to do so). Consult an ophthalmologist.

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

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

Contact with the skin can cause dermatitis or allergic reactions.

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

Symptoms of poisoning may appear after many hours, for this reason medical supervision is required in the 48 hours following the accident.

**5. FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

Suitable extinguishing media      CO2 or powder or water spray extinguishers. Extinguish large fires with water spray or alcohol-resistant foam.

Unsuitable extinguishing media      None

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

Avoid breathing fumes

**5.3 Advice for firefighters**

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**

**Safety data sheet**  
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Revision n. IV of 2021.10.27

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

**6.1.1. For non-emergency personnel**

Keep away from contaminated area

**6.1.2. For emergency responders**

Use :

Chemical risk gloves compliant with EN420 EN374 standards

Splash goggles compliant with Directive 89/686 / EEC and standard EN166: 2001

Complete antacid clothing compliant with the UNI EN 13034: 2006 type 6 standard

Semi-face mask with P2 filters

**6.2 Environmental precautions**

In the event of infiltration into bodies of water or sewers or penetration into the ground, notify the competent authorities.

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

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

Avoid formation of dust

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

Wash the contaminated area with water. Prevent infiltration into the sewer, groundwater and surface 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 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**

Use under suction. Close the jars immediately after use. Use is permitted only to trained and informed personnel.

**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**

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

Store in an area without drains or access to sewers and protected from humidity

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

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

Keep in closed containers

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

Store in a cool and dry warehouse

**Safety data sheet**  
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**CHLORIDE PD SALE 60%**

Revision n. IV of 2021.10.27

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**7.2.5 Provisions relating to ventilation, specific design of storage rooms or containers, quantitative limits in storage conditions, compatibility of packaging**  
Storage containers must be approved according to the ADR regulations and labeled.

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

Industrial use

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

For this substance, the occupational and biological exposure limit values corresponding to the relative Community limit values referred to in Directives 98/24 / EC and 2004/37 / EC have not been established.

**8.2. Exposure controls**

**8.2.1. Appropriate engineering controls**

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 risk gloves compliant with EN420 EN374 standards

**Skin protection (body)**

Complete antacid clothing compliant with the UNI EN 13034: 2006 type 6 standard

**Respiratory protection**

Semi-face mask with P2 filters

**Thermal hazards**

The substance does not present thermal hazards

**8.2.3. Environmental exposure controls**

Maintain suction in all environments using localized collection and ambient air exchange systems. Convey the aspirated volumes to an abatement system and then into the atmosphere. Do not use recirculating air suction systems. Avoid any spill into the environment.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

Physical state	Solid
Colour	Brown red
Odour	Odorless
Melting point/freezing point	679 ° C
Boiling point or initial boiling point and boiling range	Data not available
Flammability	Not inflammable

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Lower and upper explosion limit	Not explosive
Flash point	Not inflammable
Auto-ignition temperature	Not inflammable
Decomposition temperature	Not inflammable
pH	Not applicable
Kinematic viscosity	Not applicable
Solubility	Almost insoluble in water
Partition coefficient n-octanol/water (log value)	Not applicable
Vapour pressure	Not applicable
Density and/or relative density	4 g / cm <sup>3</sup> at 20 ° C
Relative vapour density	Not applicable
Particle characteristics	<100 µm: 91.8%

**9.2. Other information**

None

**10. STABILITY AND REACTIVITY**

**10.1 Reactivity**

It can be corrosive to some metals due to the presence of chloride

**10.2 Chemical stability**

The product is stable

**10.3 Possibility of hazardous reactions**

There are no known dangerous reactions.

**10.4 Conditions to avoid**

None

**10.5 Incompatible materials**

Strong oxidants

**10.6 Hazardous decomposition products**

The product does not decompose

**11. TOXICOLOGICAL INFORMATION**

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

**Acute toxicity**

Oral LD50 479 mg / kg bw rat

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	<b>Skin corrosion / irritation</b>	It can be irritating
	<b>Serious eye damage/irritation</b>	Serious eye damage
	<b>Respiratory or skin sensitization</b>	It can cause an allergic reaction on the skin.
	<b>Germ cell mutagenicity</b>	Not mutagenic
	<b>Carcinogenicity</b>	Not carcinogenic
	<b>Reproductive toxicity</b>	Not toxic for reproduction
	<b>STOT – single exposure</b>	Non toxic
	<b>STOT – repeated exposure</b>	Non toxic
<b>11.2</b>	<b>Information on other hazards</b>	
	None	
<b>12.</b>	<b>ECOLOGICAL INFORMATION</b>	
<b>12.1</b>	<b>Toxicity</b>	PNEC freshwater: 0.045 µg / L PNEC marine water: 0.004 µg / L
<b>12.2</b>	<b>Persistence and degradability</b>	Not applicable
<b>12.3</b>	<b>Bioaccumulative potential</b>	Data not available
<b>12.4</b>	<b>Mobility in soil</b>	Log Kp (solid – water in soil) 2.64 a 25 °C Log Kp (solid – water in sediments) 3.39 a 23°C
<b>12.5</b>	<b>Results of PBT and vPvB assessment</b>	Not applicable
<b>12.6</b>	<b>Endocrine disrupting properties</b>	Not know effect
<b>12.7</b>	<b>Other adverse effects</b>	Not know effect
<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 and delivered to authorized companies.	
<b>14.</b>	<b>TRANSPORT INFORMATION</b>	
<b>14.1</b>	<b>UN number or ID number</b>	1759
<b>14.2</b>	<b>UN proper shipping name</b>	Corrosive solid n.o.s. (Pd dichloride)
<b>14.3</b>	<b>Transport hazard class(es)</b>	8
<b>14.4</b>	<b>Packing group</b>	III
<b>14.5</b>	<b>Environmental hazards</b>	YES
<b>14.6</b>	<b>Special precautions for user</b>	Use plastic packaging

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14.7	<b>Maritime transport in bulk according to IMO instruments</b>	
15.	<b>REGULATORY INFORMATION</b>	
15.1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	<b>Applicability</b>
	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	YES
	Legislative Decree 81/2008 Consolidated Law on health and safety at work	YES
	Directive 2014/103 / EU "Adr"	YES
15.2	<b>Chemical safety assessment</b> A chemical safety assessment was not carried out	
16.	<b>OTHER INFORMATION</b>	
16.1	<b>Changes compared to the previous edition</b> Regulatory update	
16.2	<b>Acronim and abbreviation legend</b> 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	
16.3	<b>Main references and data sources</b> ECHA's data bank on registered substances and soon to be registered substances: <a href="http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances">http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances</a>	
16.5	<b>Adequate training for workers in order to ensure the protection of human health and the environment</b>  Training on Chemical Risk pursuant to Legislative Decree 81/08 Title IX dangerous substances DPI training	