

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



Revision n. VIII of 22.11.2022  
Replaces revision VII of 16.12.2021

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

**1.1 Product identifier**

Chemical name	Palladium Acetate (II)
C.A.S. Registry Number	3375-31-3
EINECS number	222-164-4
Molecular weight	224.5 g/mol
Brute formula	(CH <sub>3</sub> COO) <sub>2</sub> Pd
Product code	145

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

Intended use: Industrial use  
Uses advised against: 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 Registration number**

A REACH registration number is not available for this substance as the annual quantity produced or imported is less than one tonne.

**2. HAZARDS IDENTIFICATION**

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

Hazard class	Category codes	Hazards indications
Skin sens.	1	H317 May cause an allergic skin reaction
Eye Dam.	1	H318 Causes serious eye damage
Aquatic acute	1	H400 Very toxic to aquatic life
Aquatic chronic.	1	H410 Very toxic to aquatic life with long lasting effects

**2.2 Label elements:  
Pictograms**



**Signal word**

**DANGER**

**Hazard statement**

H317

May cause an allergic skin reaction

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



Revision n. VIII of 22.11.2022  
Replaces revision VII of 16.12.2021

<b>Precautionary advise</b>	H318	Causes serious eye damage
	H400	Very toxic to aquatic organisms
	H410	Very toxic to aquatic life with long lasting effects
	P273	Do not disperse in the environment
	P280	Wear protective gloves / protective clothing / eye protection / face protection
	P305+P351+P338	In case of contact with eyes: rinse thoroughly for several minutes. Remove any contact lenses if easy to do. Continue rinsing.
	P310	Immediately call a POISON CENTER / doctor
P333+P313	If skin irritation or rash occurs: seek medical attention	

- 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 ACETATE (II) ≤ 100%

CAS number : 3375-31-3  
EINECS number : 222-164-4  
Index Number : Not available  
STA: Oral LD50 > 5110 mg/kg (rat)  
Acute M factor : 100  
Cronic M factor: 10

**4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

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. Make victim drink water (two glasses at most). Do not induce vomiting.
Contact with skin	Immediately wash with 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.

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



Revision n. VIII of 22.11.2022  
Replaces revision VII of 16.12.2021

Recommendations:

- Need to see a doctor immediately YES
- Possibility of delayed effects following exposure NO
- 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 Use gloves
- For those providing first aid, wear PPE YES

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

Irritation and burning to eyes and skin

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

Consult a doctor immediately

**5. FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

Suitable extinguishing media      Suitable extinguishing media: CO<sub>2</sub>, powder or water spray.  
Extinguish large fires with water spray or alcohol-resistant foam.

Unsuitable extinguishing media      No one in particular

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

In case of fire, toxic fumes may be produced: carbon monoxide.

**5.3 Advice for firefighters**

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

Equipment      Protective helmet with visor, fireproof clothing, fireproof gloves, an overpressure mask with a facepiece that covers the entire face of the operator or self-contained breathing apparatus in the event of large quantities of smoke.

**6. ACCIDENTAL RELEASE MEASURES**

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

**6.1.1. For non-emergency personnel**

Move away from the contaminated area immediately 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**

Avoid formation of dust

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

Wash contaminated area with water

**6.3.3 Other information**

None

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



Revision n. VIII of 22.11.2022  
Replaces revision VII of 16.12.2021

- 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***  
Store in the original labeled packaging. Close immediately after use
- 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 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 away from humidity and direct light.
- 7.2.2. *Containment of the effects of weather conditions, pressure, temperature, sunlight, humidity and vibrations***  
Store in closed and labeled containers
- 7.2.3. *Conditions for keeping substances / mixtures intact***  
Keep in a cool and dry place in tightly closed containers at temperatures not exceeding 25 ° C
- 7.2.4. *Provisions relating to ventilation, specific design of storage rooms or containers, quantitative limits in storage conditions, compatibility of packaging***  
Use approved ADR packaging
- 7.3. Specific end use(s)**  
Industrial use
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
- 8.1. Control parameters (related to metallic Silver species)**  
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***
- |                                |   |
|--------------------------------|---|
| <b>Eye/face protection</b>     | Splash goggles compliant with Directive 89/686 / EEC and standard EN166: 2001 |
| <b>Skin protection (hands)</b> | Gloves for chemical risks compliant with EN420 EN374 Standards                |
| <b>Skin protection (body)</b>  | Complete clothing compliant with the UNI EN 13034: 2006 standard              |
| <b>Respiratory protection</b>  | semifacial mask with P2 filters   |
| <b>Thermal hazards</b>         | none  |
- 8.2.3. *Environmental exposure controls***

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



Revision n. VIII of 22.11.2022  
Replaces revision VII of 16.12.2021

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	Dust
Color	Orange
Odor	Undefined
Melting point / freezing point	450 ° C
Boiling point or initial boiling point and boiling range	Not applicable
Flammability	Not inflammable
Lower and upper explosive limits	Not explosive
Flash point	Not inflammable
Self-ignition temperature	Not inflammable
Decomposition temperature	Not inflammable
pH	Unavailable
Kinematic viscosity	Not applicable
Solubility	922 mg / L at 20 ° C and pH 3.5
Partition coefficient n-octanol / water (logarithmic value)	-0.17 to 20 ° C
Vapor pressure	0.002 Pa at 25 ° C
Density and / or relative density	2.35 g/cm <sup>3</sup>
Relative vapor density	> 220 ° C
Characteristics of the particles	<100 µm: 87.7%

**9.2. Other information**

None

**10. STABILITY AND REACTIVITY**

**10.1 Reactivity**

No relevant information

**10.2 Chemical stability**

The product is stable under normal working conditions

**10.3 Possibility of hazardous reactions**

No relevant information

**10.4 Conditions to avoid**

strong heating

**10.5 Incompatible materials**

Aluminum and iron

**10.6 Hazardous decomposition products**

carbon monoxide

**11. TOXICOLOGICAL INFORMATION**

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

**Acute toxicity** Oral LD50> 5110 mg / kg (rat)

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



Revision n. VIII of 22.11.2022  
 Replaces revision VII of 16.12.2021

	<b>Skin corrosion / irritation</b>	Based on available data, the classification criteria are not met
	<b>Serious eye damage/irritation</b>	It can cause irreversible injuries
	<b>Respiratory or skin sensitization</b>	May cause skin allergy
	<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>	Based on available data, the classification criteria are not met
	<b>STOT – repeated exposure</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</b>	
<b>12.1</b>	<b>Toxicity</b>	LC50 (4 days) 154 - 530 µg / L (fish) PNEC (freshwater) 45 ng / L PNEC (marine water): 4.5 ng / L NOEC (21 days) 14.3 - 102 µg / L (invertebrates) EC10 (21 days) 35.7 - 84.9 µg / L (invertebrates)
<b>12.2</b>	<b>Persistence and degradability</b>	Data not available
<b>12.3</b>	<b>Bioaccumulative potential</b>	Data not available
<b>12.4</b>	<b>Mobility in soil</b>	Data not available
<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>	UN3077
<b>14.2</b>	<b>UN proper shipping name</b>	Dangerous material from the point of view of the environment n.o.s.
<b>14.3</b>	<b>Transport hazard class(es)</b>	9
<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>	Approved packaging
<b>14.7</b>	<b>Maritime transport in bulk according to IMO instruments</b>	n.a.
<b>15.</b>	<b>REGULATORY INFORMATION</b>	

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



Revision n. VIII of 22.11.2022  
 Replaces revision VII of 16.12.2021

<b>15.1</b>	<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
	<b>Reg. (CE) 1907/2006/CE Reach art. 59 – Candidate List of Substances of Very High Concern (SVHC)</b>	NO
	<b>Reg. (CE) 1907/2006/CE Reach - Annex XIV – Authorisation List</b>	NO
	<b>Reg. (CE) 1907/2006/CE Reach - Annex XVII – Restriction List</b>	Limited use
	<a href="https://echa.europa.eu/it/substances-restricted-under-reach">https://echa.europa.eu/it/substances-restricted-under-reach</a>	Item 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 update.

**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>

**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