

Safety data sheet
According to Regulation n. 1907/2006 and Regulation 830/2015
Palladium acetate (II)



Revision n. VI dd 01.21.2019
 Replaces revision n V dd 12.16.2018

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
 Chemical Formula $(\text{CH}_3\text{COO})_2\text{Pd}$

1.2 Pertinent use of the substance and recommended use

Chemical for synthesis

1.3 Informations about the furniture 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 Tel. 0557947819 Centro Antiveleni di Firenze

1.5 Registration number

For this product is not available a registration number as the annual produced or imported quantity is below one ton.

2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture in accordance with Regulation (CE) n. 1272/2008

Hazard classes	Category codes	Hazard statements
Eye dam.	1	H318
Aquatic chronic	4	H413

2.2 Label elements

Pittogrammi



Warnings

DANGER

Hazard statements

H318	Causes serious eye damage
H413	May cause long-lasting harmful effects to aquatic life

Safety Advice

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

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P310 Immediately call a POISON CENTER/doctor
 P501 Dispose of contents/container in accordance with local/regional/national/international regulation

- **Further Informations** None
- Results of PBT e vPvB** PBT : not applicable
vPvB : not applicable

3. **COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 **Substance Palladium acetate (II) ≤ 100 %**

CAS number 3375-31-3
 EINECS number 222-164-4
 CE number -
 IUPAC number -

4. **FIRST-AID MEASURES**

4.1 **Description of the first-aid measures**

Inhalation If the subject is unconsciousness bring patient into stable side position for transportation
 Ingestion Immediately call a doctor for medical treatment. Drink at least 2 glasses of water
 Skin contact Wash immediately with plenty of water
 Eye contact Immediately flush eyes with plenty of water for at least 15 minutes after removing contact lenses, occasionally lifting the upper and lower eyelids. Consult an ophthalmologist

Recommendations:

- **Need for immediate medical attention** YES
- **Possibility of delayed effects subsequent the exposition** YES
- **Move the exposed individual from the area to fresh air** YES
- **Remove clothes and shoes from the individual** YES
- **Modality of manipulation of contaminated garments** With gloves
- **For lenders of first aid, wear the DPI** YES

4.2 **Main symptoms and effects both acute and delayed**

Irritation and burning eyes and skin

4.3 **Indication of the possible urgency to consult immediatly a doctor or of special treatments**

Immediately consult a doctor

5. **FIREFIGHTING MEASURES**

5.1 **Extinguishing media**

Suitable extinguishing media CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam
 Unsuitable extinguishing media None in particular

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

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- In case of fire, toxic fumes are generated
- 5.3 Advice for firefighters**
- General informations Avoid that the water used to extinguish the fire goes into sewage system, aquifers or to superficial waters.
- Equipment Normal garments for firefighting, as an air breathing apparatus (ref. standard EN 137) or fresh air hose breathing, protective clothing for welding (EN 469), flame resistant gloves (EN659) and fireman's boots (HOA29 or A30)
- 6. ACCIDENTAL RELEASE MEASURES**
- 6.1 Personal precautions, protective equipment and emergency procedures**
- 6.1.1. For non-emergency personnel**
Get away immediately from the contaminated area.
- 6.1.2. For emergency responders**
Wear:
Chemical risks Gloves conform to the standards EN420 EN374
Complete clothing complying with the UNI EN 13034: 2006 regulation
Half-masks with ABEK2P3 R filters complying with EN14387:2004 + a1:2008 regulations
- 6.2 Environmental precautions**
Prevent product from going into sewers and water sources or soil. In case of seepage into water or sewage system or in case of seepage into the ground inform responsible authorities.
- 6.3 Methods and materials for containment and clean-up**
- 6.3.1. Recommendations about the methods of containment of a spill**
Avoid generation of dusts
- 6.3.2. Recommendations about the methods of reclamation of a spill**
Wash the contaminated area with water.
- 6.3.3. Any other informations**
None
- 6.4 Reference to other sections**
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- 7. HANDLING AND STORAGE**
- 7.1. Precautions for safe handling**
- 7.1.1. Recommendations that allow safe handling of the substance or mixture, such as containment and measures to prevent fine as well as aerosol and dust generation**
Store in original packaging and labeled. Close the jars immediately after use
- 7.1.2. Advice on general occupational hygiene**
Do not eat, drink or smoke in designated work areas. Wash hands after handling. To remove contaminated clothing and protective equipment before entering eating areas
- 7.2. Conditions for safe storage, including any incompatibilities**
- 7.2.1. Risk management decisions arising from explosive atmospheres, corrosive conditions, flammability hazards, incompatible materials, evaporative conditions, potential ignition sources**
Store in an area without drain or sewer access and protected from

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moisture and direct sunlight

7.2.3. Containment of the effects of weather conditions, pressure, temperature, sunlight, humidity and vibrations

Store in closed and labeled containers

7.2.4. Conditions to maintain the integrity of the substance or mixture

Keep in a cool, dry place in tightly closed containers at temperatures below 25°C

7.2.5. Decisions about ventilation requirements, specific design for storage rooms or vessels, quantitative limits in storage conditions, compatibility of the packaging.

Use ADR approved packaging

7.3.

Specific end use

Chemical for synthesis

8.

EXPOSURE CONTROL/ INDIVIDUAL PROTECTION

8.1.

Controller parameters

For this substance have not been established professional and biological limit values corresponding to the respective Community limits referred to in 98/24 / EC and 2004/37 / EC regulations

8.2.

Exposure controls

8.2.1. Appropriate engineering controls

Periodically check suction flow

8.2.2. Individual measures, such as personal protective equipment

Eye/face protection

Protective glasses complying with 89/686/CEE and EN166:2001 regulations

Skin protection (hands)

Protective gloves material complying with EN420 and E374 regulations

Skin protection (body)

Complete clothing complying with UNI EN 13034: 2006 type 6 regulation

Respiratory protection

Half- Mask with P2 filters

Thermal hazards

None

8.2.3. Environmental exposure controls

Keep suction all environments using capture systems localized. Conveying the withdrawn volumes to an abatement system and then into the atmosphere. Do not use vacuum systems to air recirculation.

9.

PROPERTIES (PHYSICAL/CHEMICAL)

9.1

Informations about the main physical and chemical properties

Aspect	Orange powder
Odour	No smell
Odour threshold	Undefined
pH	Not applicable
Melting point/freezing point	205° C
Initial boiling point and boiling range	Undefined
Flashpoint	Not flammable
Evaporation rate	Undefined
Flammability solids/gases	Not flammable
Upper/lower flammability or explosive	Undefined

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	limits	
	Vapour pressure	Undefined
	Vapour density	Undefined
	Relative density	Undefined
	Solubility/Solubilities	Insoluble at 20°C
	The log octanol/water partition Coefficient	Not applicable
	Auto-ignition temperature	Not applicable
	Decomposition temperature	> 220 °C
	Viscosity	Undefined
	Explosive properties	Not explosive
	Oxidising properties	Not oxidising
9.2.	Other informations (miscibility, solubility, fat solubility, conductivity, redox potential, radical formation potential and photocatalytic properties)	
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 or iron	
10.6	Hazardous decomposition products	
	Carbon monoxide	
11.	TOXICOLOGICAL INFORMATION	
11.1	Informations about toxicological effects (relatively to ammonia)	
	Acute toxicity	Oral LD50 > 5110 mg/kg (rat)
	Skin corrosion/irritation	OECD TG 401 irritating effects OECD TG 404
	eye damage/irritation	May cause burns OECD TG 405
	Skin sensitisation or corrosion/irritation	May cause an allergic reaction on skin
	Germ cell mutagenicity	Not mutagenic
	Carcinogenity	Not carcinogenic
	Reproductive toxicity	Not toxic for reproduction
	Specific target organ toxicity (STOT)-repeated exposure	Undefined
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11.2	Aspiration hazard	Probable irritation
11.3	Specific target organ toxicity Skin, eyes, respiratory tracts	
11.4.	Symptoms related to the physical, chemical and toxicological characteristic Irritating and burning	
11.5.	Delayed, immediate and chronic effects from short and long term exposure Irritating to the skin, eye damage, dermatitis	
11.6.	Interactive effects None	
11.7.	In the absence of specific data -	
12.	Other informations None	
	12. ECOLOGICAL INFORMATIONS (data relating to substance: ammonia)	
	Toxicity	May be toxic for fish and plankton.
	Persistence and degradability	There are no informations available
	Bioaccumulation potential	There are no informations available
	Mobility in soil	There are no informations available
	Results of PBT e vPvB	There are no informations available
	Other adverse effects	Data are not avail Water hazard class 2 (D) (self classification): Dangerous
13.	DISPOSAL CONSIDERATIONS	
13.1.	Waste treatment methods	This product and its packaging must be disposed of in licensed facilities.
14.	TRANSPORT INFORMATIONS	
	Not applicable	
15.	REGULATORY INFORMATION	
	15.1	
	Legislation	Applicability
	<i>Reg. (CE) 1907/2006/CE Reach</i>	YES
	<i>Reg. (CE) 1272/2008 CLP and subsequent amendments and addenda</i>	YES
	<i>Reg. (CE) 2037/2000 "Substances that deplete the ozone layer"</i>	NO
	<i>Reg. (CE) 850/2004 "The persistent organic pollutants"</i>	NO
	<i>Reg. (CE) 689/2008 "The export and import of dangerous chemicals"</i>	NO
	<i>Substance listed in Annex I 2012/18/UE cd Seveso</i>	YES
	<i>D.lgs 81/2008 Uniform Occupational Health and Safety</i>	YES

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	Code	
	Direttive 2014/103/UE "Adr"	YES
16.	15.2 Chemical Safety Assessment	
	A chemical safety assessment has not been carried out	
	OTHER INFORMATIONS	
	16.1 Changes as compared to the previous version	
	Modified section 1	
	16.2 Legend to abbreviations and acronyms	
	ADR: European Agreement on the international carriage of goods by road GHS: Globally Harmonised System of Classification and Labelling EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstract Service	
	16.3 Bibliographical references and data sources	
	ECHA substance data bank: http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances	
	Platform ESIS http://esis.jrc.ec.europa.eu	
16.4 Evaluating method adopted for mixtures classification		
	Classification	Procedura di classificazione
16.5. Advice on any training appropriate for workers to ensure protection of human health and the environment		
	<ul style="list-style-type: none">• Training sessions on Chemical Risk pursuant to Legislative Decree 81/08 Title IX hazardous substances • Training sessions on DPI	
16.6. Other informations		
	Not available	