

Safety information sheet

PALLADIUM POWDER



Revision n. IV of 2021.09.28

Replaces revision n. III of 2019.10.04

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

1.1 Identificatore del prodotto

Chemical name	PALLADIUM
C.A.S. Registry Number	7440-05-3
EINECS number	231-115-6
Molecular weight	106.4 g/mol
Brute formula	Pd
Product code	22 - 1222

1.2 Relevant identified uses of the substance and uses advised against

silversmith goldsmith - galvanic - catalysts. Industrial use.

No use advised against in particular

1.3 Information on the supplier of the safety data sheet

First name	FAGGI ENRICO S.P.A.
Street 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

Ph 0557947819 Poison Control Center of Florence

1.5 Registration number

01-2120140175-66-XXXX

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance according to Regulation (EC) no. 1272/2008: Not dangerous

2.2 Label elements: not applicable

2.3 Other dangers Powdered palladium can become flammable. Inhalation of dust can cause sensitization.

- **Results of PBT and vPvB assessment**
PBT: not applicable
vPvB: not applicable

3. COMPOSITION INFORMATION ON INGREDIENTS

3.1 Substance: PALLADIUM

Numero CAS	7440-05-3
Numero EINECS	231-115-6

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: not applicable
Ingestion: not applicable
Skin contact: not applicable
Contact with eyes: not applicable

RECOMMENDATIONS:

- **Need to see a doctor immediately** NO
- **Possibility of delayed effects following exposure** NO
- **Move the exposed individual from the place of exposure to open air** NO
- **Remove clothing and shoes of the exposed individual** NO
- **How to handle contaminated clothing** NONE
- **For those providing first aid, wear PPE** NO

4.2 Most important symptoms and effects, both acute and delayed

In rare cases it can cause sensitization

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- 4.3 Indication of any need to immediately consult a doctor and special treatments**
None
- 5. FIRE FIGHTING MEASURES**
- 5.1 Fire fighting**
- Suitable extinguishing media** CO₂, powder or water spray extinguishers
- Unsuitable extinguishing media** Do not use water on the molten metal due to the danger of violent development of steam.
- 5.2 Special hazards arising from the substance or mixture**
In powder form it can be pyrophoric
- 5.3 Special recommendations for firefighters**
Normal firefighting 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 those who do not intervene directly**
None
- 6.1.2 For those who intervene directly**
Collect the material avoiding the formation of dust.
- 6.2 Environmental precautions**
None
- 6.3 Methods and materials for containment and cleaning up**
- 6.3.1 Recommendations on how to contain a spill**
None
- 6.3.2 Recommendations on how to clean up a spill**
None
- 6.3.3 Any other information**
None
- 6.4 References to other sections**
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- 7. HANDLING AND STORAGE**
- 7.1. Precautions for Safe Handling**
- 7.1.1 Recommendations that allow the substance or mixture to be handled safely, such as containment and prevention measures for fires and for the formation of aerosols and dusts**
Avoid the formation of dust.
- 7.1.2 Generic recommendations on occupational 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 Management of risks associated with explosive atmospheres, corrosive conditions, flammability hazards, incompatible substances and mixtures, evaporation conditions, potential sources of ignition**
Avoid the formation of dust.
- 7.2.3 Containment of the effects of weather conditions, pressure, temperature, sunlight, humidity and vibrations**
None
- 7.2.4 Conditions for keeping substances / mixtures intact**
None

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Palladium is a catalytic substance and can cause reaction in contact with a large number of organic and inorganic substances with a risk of fire and explosion.

10.4	Conditions to avoid Dust formation	
10.5	Incompatible materials None	
10.6	Hazardous decomposition products Nobody	
11.	TOXICOLOGICAL INFORMATION	
11.1	Information on the hazard classes defined in Regulation (EC) No. 1272/2008	
	Acute toxicity	Non toxic
	Skin corrosion / irritation	Not corrosive
	Serious eye damage / eye irritation	Not corrosive
	Respiratory or skin sensitization	Not sensitizing
	Germ cell mutagenicity	Not mutagenic
	Carcinogenicity	Not carcinogenic
	Reproductive toxicity	Non toxic
	Specific target organ toxicity (STOT) single exposure	Not applicable
	Specific target organ toxicity (STOT) repeated exposure	Not applicable
	Aspiration hazard	It can irritate the mucous membranes in case of inhalation of dust
11.2	Information on other hazards None	
12.	INFORMAZIONI ECOLOGICHE	
12.1	Toxicity	The metal palladium is not toxic to aquatic organisms
12.2	Persistence and degradability	Not applicable
12.3	Bioaccumulation potential	Not applicable
12.4	Mobility in soil	Not applicable
12.5	Results of PBT and vPvB assessment	Not applicable
12.6	Properties of interference with the endocrine system	Not applicable
12.7	Other adverse effects	
13.	DISPOSAL CONSIDERATIONS	
13.1.	Waste treatment methods The product can be recovered	
14.	INFORMAZIONE ON TRASPORTO	
14.1	UN number or ID number	Not applicable
14.2	UN proper shipping name	Not applicable
14.3	Transport hazard class	Not applicable
14.4	Packing group	Not applicable
14.5	Environmental hazards	Not applicable
14.6	Special precautions for users	Not applicable
14.7	Bulk sea transport in accordance with IMO acts	
15.	REGULATORY INFORMATION	
15.1	Health, safety and environmental legislation and regulations specific to the substance or mixture	Applicability

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Reg. (EC) 1907/2006 / EC Reach	YES
Reg. (EC) 1272/2008 CLP and following 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	NO
Directive 2014/103 / EU "Adr"	NO

15.2 Chemical safety assessment

A chemical safety assessment was not carried out

16.

OTHER INFORMATION

Changes compared to previous edition

Amendment to section 1

Key to abbreviations and acronyms

ADR: European agreement concerning the international transport 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

Main bibliographic references and data sources

ECHA database on registered substances and those under registration:

<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 DPI