

Safety data sheet
According to Regulation n. 1907/2006 and Regulation 878/2020
Dichlorobis(triphenylphosphine)palladium(II)



Revision n. 8 – 03.11.2025

Replaced revision n. 7 – 24.09.2024

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

1.1 Product identifier

Chemical name	Dichlorobis(triphenylphosphine)palladium(II)
Product code	199
C.A.S. Registry Number	13965-03-2
EC number	237-744-2
Molecular weight	701.9 g/mol
Raw formula	$[(C_6H_5)_3P]_2PdCl_2$

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

Intended use: Industrial use. Catalyst for synthesis

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 Registration number Exempt under Article 6(1)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Hazard class	Category codes	Hazards indications
Aquatic chronic	4	H413 May cause long-lasting effects to aquatic life

2.2 Label elements:

Signal word	-	
Hazard statement	H413	May cause long-lasting effects to aquatic life
Precautionary advise	P273	Avoid release to the environment
	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 : Dichlorobis(triphenylphosphine)palladium(II)

CAS number : 13965-03-02
 EC number : 237-744-2
 Index Number : Not available
 ATE: Not applicable
 M factor : 1

4. FIRST AID MEASURES

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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).
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:

• 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	With gloves
• For those providing first aid, wear PPE	YES

4.2 Most important symptoms and effects, both acute and delayed

No known significant effects or particular criticalities

4.3 Indication of any immediate medical attention and special treatment needed

Seek immediate medical attention

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	CO ₂ , powder or water spray. Extinguish large fires with water spray or alcohol-resistant foam.
Unsuitable extinguishing media	None

5.2 Special hazards arising from the substance or mixture

In case of fire it can generate toxic fumes (phosphorus oxides, carbon monoxide and hydrochloric acid)

5.3 Advice for firefighters

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

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

Move away from contaminated area

6.1.2. For emergency responders

Use:

Protective gloves in nitrile rubber, compliant with standard (EN374)

Semi-face mask with P2 filters

Complete clothing with chemical protection in compliance with UNI EN 13034: 2006 type 6

6.2 Environmental precautions

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Prevent spillage into sewers or waterways.

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

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

No special measures are required.

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

Keep in the original packaging and close them immediately after use.

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

Keep in cool dry place

7.2.3. Conditions for keeping substances / mixtures intact

Store at room temperature and in an inert atmosphere

7.2.4 Provisions relating to ventilation, specific design of storage rooms or containers, quantitative limits in storage conditions, compatibility of packaging

Store in an area without drains or access to sewers and away from humidity and direct light.

7.3. Specific end use(s)

Industrial use. Catalyst for synthesis

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

Use under a fume hood

8.2.2. Individual protection measures, such as personal protective equipment

Eye/face protection

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

Skin protection (hands)

Protective gloves made of fluororubber, compliant with the standard (EN374).

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The breakthrough time of the gloves must be ≥ 480 min and the thickness 0.11 mm.

Skin protection (body) Complete clothing compliant with UNI EN 13034: 2006 type 6
Respiratory protection Semi-face mask with P3 filters
Thermal hazards none

8.2.3. Environmental exposure controls

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Crystalline powder
Color	Yellow- green
Odor	Characteristic
Melting point / freezing point	254 ° 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	Data not available
pH	Data not available
Kinematic viscosity	Not applicable
Solubility	Insoluble in water
Partition coefficient n-octanol / water (logarithmic value)	Log Pow 5.69 at 20 ° C
Vapor pressure	Not applicable
Density and / or relative density	1.44 g/cm ³
Relative vapor density	Not applicable
Characteristics of the particles	<100 µm: 82.3%

9.2. Other information

None

10. STABILITY AND REACTIVITY

10.1 Reactivity

Catalytic properties

10.2 Chemical stability

This product is stable under normal use conditions

10.3 Possibility of hazardous reactions

May react violently with hot nitric or sulfuric acid

10.4 Conditions to avoid

Do not expose it to the oxidizing action of the air.

10.5 Incompatible materials

Nitric acid and sulfuric acid

10.6 Hazardous decomposition products

In the event of a fire, carbon monoxide, hydrochloric acid, phosphorus oxides can develop

11. TOXICOLOGICAL INFORMATION

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

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	Acute toxicity	Based on the available data, the classification criteria are not met
	Skin corrosion / irritation	Based on the available data, the classification criteria are not met
	Serious eye damage/irritation	Based on the available data, the classification criteria are not met
	Respiratory or skin sensitization	Based on the available data, the classification criteria are not met
	Germ cell mutagenicity	Based on the available data, the classification criteria are not met
	Carcinogenicity	Based on the available data, the classification criteria are not met
	Reproductive toxicity	Based on the available data, the classification criteria are not met
	STOT – single exposure	Based on the available data, the classification criteria are not met
	STOT – repeated exposure	Based on the available data, the classification criteria are not met
11.2	Information on other hazards	
	None	
12.	ECOLOGICAL INFORMATION	
12.1	Toxicity	Data not available
12.2	Persistence and degradability	Data not available
12.3	Bioaccumulative potential	Data not available
12.4	Mobility in soil	Data not available
12.5	Results of PBT and vPvB assessment	Data not available
12.6	Endocrine disrupting properties	No known effect
12.7	Other adverse effects	None known
13.	DISPOSAL CONSIDERATIONS	
13.1.	Waste treatment methods	
	The substance and its packaging must be disposed of as hazardous waste and delivered to authorized companies.	
14.	TRANSPORT INFORMATION	
14.1	UN number or ID number	Not subject to ADR regulations
14.2	Official UN shipping name	
	ADR/RID/ADN/IMDG/ICAO-IATA:	n.a.
14.3	Transport hazard class	
	ADR/RID/ADN/IMDG/ICAO-IATA: Class	n.a.
	ADR/RID/ADN/IMDG/ICAO-IATA: Label	n.a.
	ADR: Tunnel restriction code	n.a.
	IMDG - EmS:	n.a.
14.4	Packing group	n.a.
14.5	Dangers for the environment	
	ADR/RID/ADN/ICAO-IATA:	n.a.
	IMDG: Marine Contaminant:	n.a.
14.6	Special precautions for user	
	None	
	Maritime transport in bulk according to IMO instruments	
14.7	Bulk transport is not foreseen	

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15.	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"	NO
	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 https://echa.europa.eu/it/substances-restricted-under-reach	NO
15.2	Chemical safety assessment	
	A chemical safety assessment has not been carried out	
16.	OTHER INFORMATION	
	Changes compared to the previous edition	
	Changes to section 7	
	Acronim 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

Main references and data sources

ECHA's data bank on registered substances and soon to be registered substances:

<https://chem.echa.europa.eu/>

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