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



Revision n. VI of 22.11.2022

Replaced revision n V of 06.07.2022

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 Brute 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

Uses advised against: check section 15

1.3 Details of the supplier of the safety data sheet

Name FAGGI ENRICO S.P.A.

Adress 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 111 - Medical helpline ope

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 substabce 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

Precotionary advise P273 Avoid release to the environment

P501 Dispose of the product / container in accordance with national regulations

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

2.3

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ATE: Not applicable

M factor: 1

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).

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

Possibility of delayed effects following exposure

• 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 CO2, 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 contamined area

6.1.2. For emergency responders

Use:

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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

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 contamined 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. Raccomentations in order to manipulate the substance or the mixture in a safe manner, such as containement measures and prevention of fire and aereosol 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 a temperature of 6 ° C 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

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

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9.

Eye/face protection Splash goggles compliant with Directive 89/686 / EEC

and standard EN166: 2001

Skin protection (hands) Protective gloves in latex or nitrile rubber, compliant

with EU Directive 89/89 / EEC and the resulting

standards (EN374). 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 P2 filters

Thermal hazards none

8.2.3. Environmental exposure controls

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 Not applicable

boiling range

Flammability

Lower and upper explosive limits

Flash point

Self-ignition temperature

Decomposition temperature

Data not available

Data not available

Kinematic viscosity

Solubility

Not applicable
Insoluble in water

Partition coefficient n-octanol / water

(logarithmic value)

Log Pow 5.69 at 20 ° C

Vapor pressure

Density and / or relative density

Relative vapor density

Characteristics of the particles

Not applicable

Not applicable

<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.

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	10.5	Incompatible materials			
	10.5	Nitric acid and sulfuric acid			
	10.6	Hazardous decomposition products			
		In the event of a fire, carbon monoxid	e, hydrochloric acid, phosphorus oxides can		
		develop			
11.		TOXICOLOGICAL INFORMATION			
	11.1	Information on hazard classes as defined in Regulation (EC) No 1272/2008			
		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		
		3	criteria are not met		
		STOT – repeated exposure	Based on the available data, the classification		
		or or repeated expenses	criteria are not met		
	11.2	Information on other hazards	criteria di e riot met		
		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		
40	12.7	Other adverse effects	None known		
13.	13.1.	DISPOSAL CONSIDERATIONS Waste treatment methods			
	15.1.		he disnosed of as hazardous waste and		
		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	UN proper shipping name			
	14.3	Transport hazard class(es)			
	14.4	Packing group			
	14.5	Environmental hazards			
	-				

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	14.6	Special precautions for user	
	14.7	Maritime transport in bulk	
		according to IMO instruments	
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	YES
		additions	
		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	NO
		https://echa.europa.eu/it/substances-restricted-under-reach	
	15.2	Chemical safety assessment	
		A chemical safety assessment has not been carried out	
16		OTHER INCORMATION	

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
- DPI training