According to Regulation n. 1907/2006 and Regulation 878/2020 BIS (ACETONITRILE)PALLADIUM CHLORIDE



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

1.1 Product identifier

Chemical name Bis (acetonitrile) palladium (II) chloride

Product code 344

CAS number 14592-56-4 EC number 238-637-3 Molecular weight 259,4 g/mol Raw formula $C_4H_6Cl_2N_2Pd$

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

Recommended uses Industrial use
Uses adviced 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 operating in England, in Scotland (NHS

number 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	odes Hazards indications	
Acute Tox.	3	H301 Toxic if swallowed	
Acute Tox.	3	H311 Toxic if on skin	
Acute Tox.	3	H330 Toxic if inhaled	

2.2 Label elements



Pictograms		
Signal word	DANGER	
Hazard statements		
	H301	Toxic if swallowed
	H311	Toxic if on skin
	H330	Fatal if inhaled
Precautionary advice		
	P270	Do not eat, drink or smoke when using this product
	P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or
		doctor/physician.
	P280	Wear protective
		gloves/protective

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clothing/eye protection/face

protection.

P302+P352 IF ON SKIN: Wash with plenty

of water.

P304 + P340 IF INHALED: Remove victim

to fresh air and keep at rest in a position comfortable for

breathing.

P361+P364 Take off immediately all

contaminated clothing and

wash it before reuse.

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: Bis (acetonitrile) palladium (II) chloride

CAS number 14592-56-4
CE number 238-637-3
INDEX number Not available
M factor Not applicable
ATE (oral) 100 mg/kg bw
ATE (dermal) 300 mg/kg bw

ATE (dust) 0.5 mg/L

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

immediately. If the person is unconscious, keep him stable on his side

during transport. If not breathing, give artificial respiration.

Ingestion Call a doctor immediately. Give water immediately (maximum of 2

glasses)

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

NO

• Move the exposed individual from the place of exposure to the open

• Remove the clothing and shoes of the exposed individual YES

How to handle contaminated clothing
 With gloves

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• For those who take first care, wear PPE

YES

4.2 Most important symptoms and effects, both acute and delayed

No data available

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 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

Avoid breathing fumes. If involved in a fire, the following may develop: carbon monoxide, hydrochloric acid, nitrogen oxides.

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 the contaminated area immediately and keep to windward.

6.1.2. For emergency responders

Wear: Chemical risk gloves 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. In case of penetration into the ground or infiltration of bodies of water, notify the competent authorities..

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 the 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. 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

Keep containers tightly closed in a cool and dry place

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

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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

Do not store along with oxidizing agents

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

Keep away from humidity, air and direct light.

7.2.3. Conditions for keeping substances / mixtures intact

Store in closed and labeled containers. Close the containers immediately after use.

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

The storage rooms must be cool and dry. Store in an area without drains or access to sewers

7.3. Specific end use(s)

Industrial use

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

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. Periodically check the range of the hood.

8.2.2. Individual protection measures, such as personal protective equipment

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

EEC and with 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 \geq 480 min and the thickness 0.11

mm.

Skin protection (body) Complete clothing compliant with UNI EN 13034:

2006 type 6

Respiratory protection Mask with P2 filters

Thermal hazards None

8.2.3. Environmental exposure controls

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 Solid
Color Yellow
Odor Odorless

Melting point / freezing point Data not available

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		.		
		Boiling point or initial boiling point and	Not applicable	
		boiling range Flammability	Not inflammable	
		Lower and upper explosive limits	Not explosive	
		Flash point	Not inflammable	
		·	Not inflammable	
		Self-ignition temperature		
		Decomposition temperature	Data not available	
		pH	Not defined	
		Cinematic viscosity	Not applicable	
		Solubility	Insoluble	
		Production coefficient n-octanol / water (logarithmic value)	Not applicable	
		Vapor pressure	Not applicable	
		Density and / or relative density	Data not available	
		Relative vapor density	Not applicable	
		Characteristics of the particles	Data not available	
	9.2.	Other information		
		None		
10.		STABILITY AND REACTIVITY		
	10.1	Reactivity The product has catalytic properties		
	10.2	The product has catalytic properties Chemical stability		
	10.2	The product is stable under normal conditions	s of use	
	10.3	Possibility of hazardous reactions	5 01 u3c.	
		May react violently with strong oxidizing agents		
10.4 Conditions to avoid				
		Humidity		
	10.5 Incompatible materials			
	10.5	Oxidizing agents, steel, aluminium		
	10.6 Hazardous decomposition products			
Carbon monoxide, hydrochloric acid, nitrogen oxides 11. TOXICOLOGICAL INFORMATION				
11.	11.1	Information on hazard classes as defined in F	Regulation (FC) No 1272/2008	
			The product is toxic by ingestion, skin	
		•	contact and inhalation	
		Skin corrosion / irritation	Data not available	
			Data not available	
		•	Data not available	
		•	Data not available	
			Data not available	
			Data not available	
		'	Data not available	
		• ,		
		•	Based on the available data, the classification criteria are not met	
	11.2		ciassification criteria are not met	
	11.2	Information on other hazards None		

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12.		ECOLOGICAL INFORMATION			
	12.1	Toxicity	Based on available o	lata, the	
		•	classification criteria	a are not met	
	12.2	Persistence and degradability	No information avai	lable	
	12.3	Bioaccumulative potential	No information avai	lable	
	12.4	Mobility in soil	No information avai	lable	
	12.5	Results of PBT and vPvB assessment	Not applicable		
	12.6	Endocrine disrupting properties	No known effects		
	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 by			
		authorized companies.			
14.		TRANSPORT INFORMATION			
	14.1	UN number or ID number	UN2811		
	14.2	UN proper shipping name	Toxic, solid, organic n.o.s.		
	14.3	Transport hazard class(es)	6.1		
	14.4	Packing group	III		
	14.5	Environmental hazards	NO		
	14.6	Special precautions for user	Use approved packaging		
	14.7	Maritime transport in bulk according to	Not applicable		
		IMO instruments			
15.		REGULATORY INFORMATION			
	15.1	Safety, health and environmental regulation	ons/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 pol		NO	
		Reg. (EC) 689/2008 "export and import of dangerous chemicals"		NO NO	
		Substance listed in Annex I of Dir. 2012/18 / EU so-called Seveso			
		Legislative Decree 81/2008 Consolidated L safety at work	aw on nearth and	YES	
		Directive 2014/103 / EU "Adr"		NO	
		Reg. (CE) 1907/2006/CE Reach art. 59 – Candidate List of		NO	
		Substances of Very High Concern (SVHC)			
		Reg. (CE) 1907/2006/CE Reach - Annex XIV	/ – Authorisation List	NO	
		Reg. (CE) 1907/2006/CE Reach - Annex XV	II – Restriction List	NO	
		https://echa.europa.eu/it/substances-restricted-under-reach		(check link)	
	15.2	Chemical safety assessment			
		A chemical safety assessment was not carried out			
16.		OTHER INFORMATION			
		Changes compared to the previous edition			
		First revision			
		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

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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

- Chemical Risk Training pursuant to Legislative Decree 81/08 Title IX dangerous substances
- PPE training