

1.	IDENTIFICATION	OF THE SUBSTANCE/N Product Identifier	MIXTURE AND OF T	HE COMPANY UNDERTAKING	
		Commercial	Pd chloride (II)		
		name			
		C.A.S. Registry	7647-10-1		
		Number	/04/ 10 1		
		EINECS number	231-596-2		
		Molecular weight			
		Chemical Formula	PdCl <sub>2</sub>		
	1.2	Pertinent use of the	=		
	1.2			commended use	
	1 3	Addictive for electro		a cofotu data shaat	
	1.3		t the furniture of tr	ne safety data sheet	
		Name	FAGGI ENRICO S.P.A.		
		Address		Via Majorana, 101/103 50019 Sesto	
		<b>T</b> . I I		Fiorentino FI	
		Telephone number		055311861	
		Fax number		055311791	
		Competent person	-		
		for the safety data		lorenzo.magaldi@faggi.it	
	1.4	Emergency telepho	ne number	Tel. 0557947819 Centro Antiveleni di	
				Firenze	
	1.5	Registration number			
		-	-	stration number as the annual produced or	
		imported quantity is below one ton			
2.		HAZARDS IDENTIFICATION			
	2.1			ance with Regulation (CE) n. 1272/2008	
		Hazard classes	Category codes	Hazard statements	
		Metal corrosive	1	H290	
		Acute tox.	4	H302	
		Skin sens.	1	H317	
		Eye damage	1	H318	
		Aquatic acute	1	H400	
		Aquatic chronic	1	H410	
	2.2	Label elements			
		Pittogrammi			
		Warnings	DANGER		
		Hazard	H290	May be corrosive to metals	
		statements	11230	may be controlive to metals	
		statements	H302	Harmful if swallowed	
			H317	May cause an allergic skin reaction	
			H318	Causes serious eye damage	
			H410		
			11410	Very toxic to aquatic life with long-	
				lasting effects	



Revision n. III dd 01.21.2019 Replaces revision n II dd 06.01.2015

	Safety Advice	P270	Do not eat, drink or smok this product	e when using
		P280	Wear protective gloves/p clothing/eye protection/fa	
		P305+P351+P338	IF IN EYES: Rinse cautious for several minutes. Remo lenses if present and easy continue rinsing.	ly with water ove contact
		P310	Immediately call a POISO CENTER/doctor/	N
		P330	Rinse mouth	
		P501	Dispose of contents/conta accordance with local/regional/national/in	
			regulation	
	Futher	None		
	Informations	PBT : not applicabl	e	
	Results of PBT e vPvB	vPvB : not applicat	ble	
3.1	COMPOSITION/INF Substance	ORMATION ON ING	REDIENTS	
			Classific	ation
			Hazard classes	Hazard
				i lazal u
	Palladium (II) chlori	de	Category codes Met. Corr.1	Statements H290
	Palladium (II) chlori CAS 7647-10-1	de	Category codes	Statements
		de	Category codes Met. Corr.1	Statements H290
	CAS 7647-10-1	de	<b>Category codes</b> Met. Corr.1 Acute Tox. 4	Statements H290 H302
	CAS 7647-10-1	de	<b>Category codes</b> Met. Corr.1 Acute Tox. 4 Skin Sens. 1	<b>Statements</b> H290 H302 H317
	CAS 7647-10-1	de	<b>Category codes</b> Met. Corr.1 Acute Tox. 4 Skin Sens. 1 Eye Dam. 1	Statements H290 H302 H317 H318
	CAS 7647-10-1		<b>Category codes</b> Met. Corr.1 Acute Tox. 4 Skin Sens. 1 Eye Dam. 1 Aquatic Acute 1	Statements H290 H302 H317 H318 H400
4.1	CAS 7647-10-1 EINECS 231-596-2	RES	<b>Category codes</b> Met. Corr.1 Acute Tox. 4 Skin Sens. 1 Eye Dam. 1 Aquatic Acute 1	Statements H290 H302 H317 H318 H400
4.1	CAS 7647-10-1 EINECS 231-596-2 FIRST-AID MEASUR	R <b>ES</b> Tirst-aid measures	<b>Category codes</b> Met. Corr.1 Acute Tox. 4 Skin Sens. 1 Eye Dam. 1 Aquatic Acute 1	Statements H290 H302 H317 H318 H400 H410
4.1	CAS 7647-10-1 EINECS 231-596-2 <b>FIRST-AID MEASUR</b> Description of the f	<b>ES</b> Tirst-aid measures If the subject is unc side position for tra	Category codes Met. Corr.1 Acute Tox. 4 Skin Sens. 1 Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 1	Statements H290 H302 H317 H318 H400 H410
4.1	CAS 7647-10-1 EINECS 231-596-2 <b>FIRST-AID MEASUR</b> Description of the f Inhalation Ingestion	RES Tirst-aid measures If the subject is und side position for tra Call a doctor for me	Category codes Met. Corr.1 Acute Tox. 4 Skin Sens. 1 Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 1 consciousness bring patient ansportation edical treatment	Statements H290 H302 H317 H318 H400 H410
4.1	CAS 7647-10-1 EINECS 231-596-2 <b>FIRST-AID MEASUR</b> Description of the f Inhalation	<b>RES</b> First-aid measures If the subject is unc side position for tra Call a doctor for me Take off immediate	Category codes Met. Corr.1 Acute Tox. 4 Skin Sens. 1 Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 1 consciousness bring patient ansportation edical treatment ely all contaminated clothing	Statements H290 H302 H317 H318 H400 H410
4.1	CAS 7647-10-1 EINECS 231-596-2 <b>FIRST-AID MEASUR</b> Description of the f Inhalation Ingestion Skin contact	<b>ES</b> irst-aid measures If the subject is und side position for tra Call a doctor for me Take off immediate immediately with p	Category codes Met. Corr.1 Acute Tox. 4 Skin Sens. 1 Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 1 consciousness bring patient ansportation edical treatment ely all contaminated clothing olenty of water and soap	Statements H290 H302 H317 H318 H400 H410 into stable g, and wash
4.1	CAS 7647-10-1 EINECS 231-596-2 <b>FIRST-AID MEASUR</b> Description of the f Inhalation Ingestion	<b>RES</b> irrst-aid measures If the subject is unc side position for tra Call a doctor for me Take off immediate immediately with p Immediately flush e	Category codes Met. Corr.1 Acute Tox. 4 Skin Sens. 1 Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 1 consciousness bring patient ansportation edical treatment ely all contaminated clothing elenty of water and soap eyes with plenty of water for	Statements H290 H302 H317 H318 H400 H410 into stable g, and wash
4.1	CAS 7647-10-1 EINECS 231-596-2 <b>FIRST-AID MEASUR</b> Description of the f Inhalation Ingestion Skin contact	<b>RES</b> irst-aid measures If the subject is und side position for tra Call a doctor for me Take off immediate immediately with p Immediately flush e minutes after remo	Category codes Met. Corr.1 Acute Tox. 4 Skin Sens. 1 Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 1 consciousness bring patient ansportation edical treatment ely all contaminated clothing elenty of water and soap eyes with plenty of water for oving contact lenses, occasi	Statements H290 H302 H317 H318 H400 H410 into stable g, and wash or at least 15 onally lifting
4.1	CAS 7647-10-1 EINECS 231-596-2 <b>FIRST-AID MEASUR</b> Description of the f Inhalation Ingestion Skin contact Eye contact	<b>ES</b> irst-aid measures If the subject is unc side position for tra Call a doctor for me Take off immediate immediately with p Immediately flush e minutes after remo the upper and lowe	Category codes Met. Corr.1 Acute Tox. 4 Skin Sens. 1 Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 1 consciousness bring patient ansportation edical treatment ely all contaminated clothing elenty of water and soap eyes with plenty of water for	Statements H290 H302 H317 H318 H400 H410 into stable g, and wash or at least 15 onally lifting
4.1	CAS 7647-10-1 EINECS 231-596-2 FIRST-AID MEASUR Description of the f Inhalation Ingestion Skin contact Eye contact Eye contact . Need for in	<b>ES</b> irst-aid measures If the subject is unc side position for tra Call a doctor for me Take off immediate immediately with p Immediately flush e minutes after remo the upper and lowe	Category codes Met. Corr.1 Acute Tox. 4 Skin Sens. 1 Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 1 consciousness bring patient ansportation edical treatment ely all contaminated clothing elenty of water and soap eyes with plenty of water for oving contact lenses, occasi	Statements H290 H302 H317 H318 H400 H410 into stable g, and wash or at least 15 onally lifting
4.1	CAS 7647-10-1 EINECS 231-596-2 FIRST-AID MEASUR Description of the f Inhalation Ingestion Skin contact Eye contact Recommendat	RES irst-aid measures If the subject is und side position for tra Call a doctor for me Take off immediate immediately with p Immediately flush e minutes after remo the upper and lowe ions: mmediate medical elayed effects	Category codes Met. Corr.1 Acute Tox. 4 Skin Sens. 1 Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 1 consciousness bring patient ansportation edical treatment ely all contaminated clothing blenty of water and soap eyes with plenty of water for oving contact lenses, occasi er eyelids. Consult an ophth	Statements H290 H302 H317 H318 H400 H410 into stable g, and wash or at least 15 onally lifting

3.

4.



		are	ea to fresh air		
			move clothes ar lividual	nd shoes from the	YES
			ty of manipulat	ion of	With gloves
			ninated garment		0
			ders of first aid,		YES
	4.2			ffects both acute and	delayed
				allergic reactions or	-
	4.3		ion of the possil	-	t immediately a doctor or of special
				g may occur even afte	r several hours; therefore medical
				ed for at least 48 hour	
5.			GHTING MEASU	RES	
	5.1	-	ishing media	CO2	
		media	e extinguisning	CO2, powder or wat	er spray
		Unsuita	blo	Nono in particular	
			ishing media	None in particular	
	5.2	-	-	from the substance of	or the mixture
	5.2		preathing fumes	nom the substance (	
	5.3		for firefighters		
	General		-	used to extinguish the fire goes into sewage system,	
	informations	aquifers or to superficial waters			
	Equipment		-		reathing 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)			
~					5 (HUA29 or A30)
6.	6.1		CIDENTAL RELEASE MEASURES rsonal precautions, protective equipment and emergency procedures		
	0.1		For non-emerg	ency personnel	
		<b>643</b>	•	ediately from the con	taminated area.
		6.1.2.	For emergency Wear:	responders	
			mean.	Gloves conform to th	e standards EN/20 EN37/
		Chemical risks Gloves conform to the standards EN420 EN374 Complete clothing complying with the UNI EN 13034: 2006 regulation			
			Mask with K fil		
	6.2	Environmental precautions			
		Prevent product from going into sewers and water sources or soil In case of			
		seepag	seepage into water or sewage system or in case of seepage into the ground		
		inform responsible authorities			
	6.3	Metho	ds and materials	s for containment and	d clean-up
		6.3.1.	Contain the s		ods of containment of a spill absorbent material (sand, sawdust)
		6.3.2.	Recommendat	tions about the meth	ods of reclamation of a spill
		6.3.3.	Wash the cont Any other info	aminated area with p	lenty of water
		0.3.3.	ing other injo		



	<b>C A</b>	Defens	None rence to other sections		
	6.4	- Refere			
7.	7.1.	Precau	LING AND STORAGE utions for safe handling Recommendations that allow safe handling of the substance or mixture,		
		7.1.1.	such as containment and measur and dust generation	res to prevent fine as well as aerosol e the jars immediately after use. The use	
	7.2.	7.1.2.	handling. To remove contaminate before entering eating areas	ignated work areas. Wash hands after ed clothing and protective equipment	
<b>7.2.1.</b> Risk corre evap Store		Risk management decisions arisi corrosive conditions, flammabilit evaporative conditions, potentia	Conditions for safe storage, including any incompatibilities Risk management decisions arising from explosive atmospheres, corrosive conditions, flammability hazards, incompatible materials, evaporative conditions, potential ignition sources tore in an area without drain or sewer access and protected from noisture		
		7.2.3.	<b>Containment of the effects of we</b> <b>temperature, sunlight, humidity</b> Store in closed and labeled conta	and vibrations	
		7.2.4.	<b>Conditions to maintain the integ</b> Store in a cool dry place		
<b>7.2.5.</b> Decisions about ve rooms or vessels, q compatibility of th The containers use		Decisions about ventilation require rooms or vessels, quantitative lin compatibility of the packaging.	irements, specific design for storage nits in storage conditions , nust be approved according to ADR		
8.	7.3.		Specific end use Professional use EXPOSURE CONTROL/ INDIVIDU/		
0.	8.1.		Controller parameters For this substance It has not been established values for pr biological exposure limits corresponding to EC limits refer Directives 98/24 / EC and 2004/37 / EC		
	8.2.	8.2.1.	Exposure controls Appropriate engineering controls	c	
		Ventilation systems. Periodically check the flow rate of		check the flow rate of the exhaust hood.	
		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	



			Skin protection (body)	Complet	420 and E374 regulations e clothing antacid complying I EN 13034: 2006 type 6 on
			Respiratory protection	half-mas	sk with P2 filters
			Thermal hazards	None	
		8.2.3.	Environmental exposure controls		
			Keep suction all environments using	ng captur	e systems localized. Conveying
			the withdrawn volumes to an a	abatemen	t system and then into the
			atmosphere. Do not use vacuum s	systems to	air recirculation.
9.			PROPERTIES (PHYSICAL/CHEMICA	L)	
	9.1		Informations about the main phy	sical and	chemical properties
			Aspect		red brown solid
			Odour		None
			Odour threshold		Undefined
			рН		Not applicable
			Melting point/freezing point		500 °C
			Intial boiling point and boiling ran	ge	680 °C
			Flashpoint		Not flammable
			Evaporation rate		Not applicable
			Flammability solids/gases		Not flammable
			Upper/lower flammability or explo	osive	Not flammable nor
			limits		explosive
			Vapour pressure		Not determined
			Vapour density		Not applicable
			Relative density		4 g/ml at 25 °C
			Solubility/Solubilities		Insoluble in water
			The log octanol/water partition Coefficient		Not applicable
			Auto-ignition temperature		Not applicable
			Decomposition temperature		Not applicable
			Viscosity		Undefined
			Explosive properties		Not explosive
			Oxidising properties		Not oxidizing
	9.2.		Other informations (miscibility, se	olubility.	-
	-		redox potential, radical formation	•	•••
			properties)	•	
			None		
10.			STABILITY AND REACTIVITY		
	10.1		Reactivity		
			It can be corrosive to some metals	s because	of the presence of chloride
	10.2		Chemical stability		
			The product is stable		
	10.3		Possibility of hazardous reactions	5	
			None		
	10.4		Conditions to avoid		
			None		



	10.5	Incompatible materials		
	10.6	Strong oxidizing agents Hazardous decomposition products		
	10.0	The product does not decompose		
11.	44.4	TOXICOLOGICAL INFORMATION		
	11.1	Informations about toxicological effe	ects (relative	•
		Acute toxicity		LD50 oral 2704 mg/kg rat
		Skin corrosion/irritation		Irritating effects
		eye damage/irritation		Risk of serious eye May
		,		cause damage.
		Skin sensitization or corrosion/irrita	tion	May cause an allergic
				reaction on skin
		Germ cell mutagenicity		Not mutagenic
		Carcinogenicity		Not carcinogenic
		Reproductive toxicity		Not toxic for
				reproduction
		Specific target organ toxicity (STOT)-repeated exposure		There are no available data
		Specific target organ toxicity		There are no available
		(STOT)-repeated exposure		data
		Aspiration hazard		Intoxication
	11.2	Specific target organ toxicity		
		Eyes, skin		
	11.3	Symptoms related to the physical, cl	hemical and	toxicological
		characteristic		
		Serious eye damage, sensitization by	contact with	ı skin
	11.4.	Delayed, immediate and chronic effe	ects from sho	ort and long term
		Irritant effects to the skin and to the	eyes. Serious	s eye damage. May
		cause allergic reactions		
	11.5.	Interactive effects		
		There are no known interactive effect	ts	
	11.6.	In the absence of specific data		
	11.7.	Other informations		
		None		
12.		ECOLOGICAL INFORMATIONS (data	-	
		Toxicity	chronic tox	-
				for fish) ≤ 1 mg / I and / 48 hours (for
				s) $\leq 1 \text{ mg} / 1 \text{ and} / \text{ or } 72$
				C50 (for algae and other
				nts) $\leq 1 \text{ mg} / 1$
		Persistence and degradability	There are n	o available informations
				Pag. <b>6</b> di <b>8</b>



13.	13.1.	Bioaccumulation potential Mobility in soil Results of PBT e vPvB Other adverse effects DISPOSAL CONSIDERATIONS Waste treatment methods	There are no available informations There are no available informations There are no available informations There are no available informations
14.	13.1.	This product and its packaging must TRANSPORT INFORMATIONS	be disposed of in licensed facilities.
		ONU number	1759
		Name	Solid, corrosive
			n.a.s. (Pd
			dichloride)
		Transport Hazard class	8
		Pack Group	III
		Environmental Hazards	YES
		Special precautions for user	Use plastic
			packaging
15.		<b>REGULATORY INFORMATION</b>	
	15.1	Legislation	Applicability
		Reg. (CE) 1907/2006/CE Reach	YES
		Reg. (CE) 1272/2008 CLP and	YES
		subsequent amendments and	
		addenda	
		Reg. (CE) 2037/2000 "Substances	NO
		that deplete the ozone layer"	
		Reg. (CE) 850/2004 "The persistent	NO
		organic pollutants"	
		Reg. (CE) 689/2008 "The export	NO
		and import of dangerous	
		chemicals"	
		Substance listed in Annex I	YES
		2012/18/UE cd Seveso	
		D.lgs 81/2008 Uniform	YES
		Occupational Health and Safety	
		Code	VEC
	15.3	DirettivE 2014/103/UE "Adr"	YES
	15.2	Chemical Safety Assessment A chemical safety assessment has no	at been corried out
16.		OTHER INFORMATIONS	bi been carried out
10.	16.1		usversion
	10.1	Changes as compared to the previo Modified section 1	us version
	16.2	Legend to abbreviations and acrony	ime
	10.2		ternational carriage of goods by road
		GHS: Globally Harmonised System of	
			ing Commercial Chemical Substances
		CAS: Chemical Abstract Service	
	16.3	Bibliographical references and data	sources
	10.5	ECHA substance data bank:	
			Pag. <b>7</b> di <b>8</b>
			ras. / UIO



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> http://echa.europa.eu/web/guest/information-on-chemicals/registeredsubstances

#### Platform ESIS

#### http://esis.jrc.ec.europa.eu

16.4	•	lopted for mixtures cla fication	classification Classification procedure	
	Metal Corrosive Eye damage	1 1	Method of calculation Method of calculation	
	Acquatic chronic	1	Method of calculation	
	Aquatic acute	1	Method of calculation	
	Acute Tox	4	Method of calculation	
	Skin Sensitive	1	Method of calculation	

# *16.5.* Advice on any training appropriate for workers to ensure protection of human health and the environment

- 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