According to Regulation n. 1907/2006 and Regulation 878/2020 PD CHLORIDE IN SOLUTION 200 g / I



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

1.1 Product identifier

Chemical name PD CHLORIDE IN SOLUTION 200 g / I

Product code 185

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

Intended 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 number 111 - Medical helpline operating in England, in

Scotland (NHS 24) and in Wales (NHS Direct Wales)

1.5 Registration number A registration number is not available for this product

as it is a mixture.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Hazard classes	Category codes	Hazard statements
Met. Corr.	1	H290
Acute Tox.	4	H302
Skin Corr.	1B	H314
Eye Dam.	1	H318
Skin Sensitive	1	H317
STOT SE	3	H335
Aquatic chronic	1	H400
Aquatic acute	1	H410

2.2 Label elements

Pictograms







Signal word	DANGER	
Hazard statements		
	H290	May be corrosive to metals
	H302	Harmful if swallowed
	H314	Causes severe skin burns and eye damage
	H335	May cause respiratory irritation
	H410	Very toxic to aquatic life with long lasting effects
Precautionary statements	P270	Do not eat, drink or smoke during use

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		P280	Wear protective gloves /
			clothing. Protect eyes / face
		P303+P361+P353	IN CASE OF CONTACT WITH
			SKIN (or hair): immediately
			take off contaminated
			clothing. Rinse the skin / take
			a shower
		P305+P351+P338	IN CASE OF CONTACT WITH
			THE EYES: rinse thoroughly
			for several minutes. Remove
			any contact lenses if easy to
			do. Continue rinsing
		P301 + P330+P331	IF SWALLOWED rinse mouth.
			Do not induce vomit.
		P304+P340	IN CASE OF INHALATION:
			transport the injured person
			to fresh air and keep him in a
			position that favors
			INHALATION.
2.3	Other hazards	It does NOT contain PE	BT / vPvB substances according
		to Regulation (EC) 190	7/2006, annex XIII
		It does NOT contain su	bstances that interfere with
		the endocrine system i	in accordance with Regulation
		(EC) 1907/2006 art.59	paragraph 1 and in accordance
		with the criteria establ	ished in Regulation (EU)
		2017/2100 and Regula	tion (EU) 2018/605.
	COMPOSITION/INFORMATION ON ING	REDIENTS	

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixure

Product identificator	Concentration	Classification	
		Hazard classes and category	Indications of
		codes	danger
Palladium (II) Chloride	20 % ≤ C ≤ 30 %	Met. Corr. 1	H290
CAS: 7647-10-1		Acute Tox. 4	H302
EC: 231-596-2		Skin Sens. 1	H317
Index number: not available		Eye Dam. 1	H318
ATE: LD50 oral 576 mg/kg bw (rat)		Aquatic Acute 1	H400
M factor acute: 100		Aquatic Chronic 1	H410
M factor chronic: 10			
Hydrochloric acid 31 -33%	25 % ≤ C ≤ 50 %	Met. Corr. 1	H290
CAS: 7647-01-0		Skin Corr. 1 B	H314
EC: 231-595-7		STOT SE 3	H335
N. Reach: 01-2119484862-27-XXXX			
ATE: LC50 (rat) (inhalation): 4701			
ppm			
Specific limits:			
Skin Corr. 1B; H314: C ≥ 25 %			
Skin Irrit. 2; H315: 10 % ≤ C < 25 %			

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Eye Irrit. 2; H319: 10 % ≤ C < 25 %

STOT SE 3; H335: C ≥ 10 % M factor: not applicable

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation Bring the injured person to fresh air. If breathing is stopped, give

artificial respiration. Consult a physician.

Ingestion Drink a lot of water. Do not induce vomiting. Consult a physician.

Contact with skin Immediately wash skin with soap and plenty of water for at least

15 minutes. Remove contaminated clothing and wash it before

reuse.

Contact with eyes Rinse with plenty of running water for at least 15 minutes Do not

use eye drops or ointments. Consult a physician.

Recommendations:

• Need to see a doctor immediately

• Possibility of delayed effects following exposure

YES

YES

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

air YES

Remove the clothing and shoes of the exposed individual
 With gloves

How to handle contaminated clothing
 For first aiders, wear PPE

YES

4.2 Most important symptoms and effects, both acute and delayed

Eye, nose and throat irritation, chest pain, choking, skin irritation, corneal burns, skin burn (after severe exposure), nausea, vomiting. Abundant and haemorrhagic mucous secretions, bronchitis, pulmonary edema, corneal necrosis, tissue necrosis, gastrointestinal tract perforation

4.3 Indication of any immediate medical attention and special treatment needed

Consult a doctor immediately. Emergency showers and eye washing systems must be available in the workplace.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Water spray, carbon dioxide, foam

Unsuitable extinguishing media None in particolar

5.2 Special hazards arising from the substance or mixture

In case of fire it can develop hydrochloric acid, toxic for inhalation. The product reacts with metals to develop hydrogen, which is highly flammable.

5.3 Advice for firefighters

Prevent the water used to extinguish the fire from flowing into the sewer, groundwater or surface water. Cool containers at risk with water.

General information:

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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)

Equipment:

6.

ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Keep away from contaminated area and keep upwind

6.1.2. For emergency responders

Wear:

Gloves for chemical risks 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

6.3 Methods and material for containment and cleaning up

6.3.1. Advice in order to contain a spill

Contain spill with appropriate absorbent material (sand, sawdust) and keep in hermetic sealed container

6.3.2. Advice in order to clean-up a spill

Wash the area with plenty of 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 in original closed and labeled container

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 for safe storage, including any incompatibilities

Keep away from bases, strong oxidants and metals

7.2.1. Risk management associated with explosive atmospheres, corrosive conditions, flammability hazards, incompatible substances or mixtures, evaporative conditions, potential ignition sources

Store in the original containers and close them immediately after use.

7.2.2. Control of weather conditions, ambient pressure, temperature, sunlight, humidity, and vibration

Store in a dry and cool place.

7.2.3. Conditions to maintain the integrity of the substance or mixture

Packages must be kept closed and labeled

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7.2.4. Advice regarding the ventilation, specific design for storage rooms or vessels, quantity limits under storage conditions, packaging compatibilities

Use PE and PP plastic packaging or other resistant materials. Keep the packages in the containment basin.

7.3. Specific end use(s)

Industrial use

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8-hour limit value: 5 ppm mg / 7,5 mg/m3 Legislative Decree 81/08 Short term limit value: 10 ppm 15 mg / m3 Legislative Decree 81/08

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Ventilation systems. Emergency showers and eye washing system near the work area. Periodically check the range of the extractor hood.

8.2.2. Individual protection measures, such as personal protective equipment

Eye/face protection Protective goggles for eyes compliant with Directive

89/686 / EEC and with standard EN166: 2001

Skin protection (hands) Chemical risk gloves compliant with EN420 EN374

standards

Skin protection (body)Complete antacid clothing compliant with the UNI

EN 13034: 2006

Respiratory protection Semi-face masks with ABEK2P3 R filters conforming

to EN14387: 2004 + A1: 2008

Thermal hazards Info not available

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.

PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state Liquid
Colour Brown red

Odour Pungent, irritating
Melting point/freezing point About -50 ° C
Boiling point or initial boiling point and About 107 ° C

boiling range

Flammability

Not inflammable

Lower and upper explosion limit

Flash point

Not inflammable

Not inflammable

Not inflammable

Not inflammable

Not inflammable

Not applicable

pH

Undefined

Kinematic viscosity 1.73 mm2 / s at 20 ° C
Solubility Completely soluble in water

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Partition coefficient n-octanol/water (log Not applicable

value)

Vapour pressure 12 hPa at 25 ° C

Density and/or relative density 1.5 g/ml

Relative vapour density

Particle characteristics

Data not available

Not applicable

9.2. Other information

None

10. STABILITY AND REACTIVITY

10.1 Reactivity

Hydrochloric acid is a strong acid with corrosive action with numerous metals. It can

produce corrosive vapors.

10.2 Chemical stability

Stable under normal storage conditions

10.3 Possibility of hazardous reactions

Hydrochloric acid can react with oxidizing products (peroxides, permanganates, chromates, persulfates ...) generating toxic gases. Reacts with metals generating hydrogen with production of heat; danger of explosion. It can produce chlorine from

light or other catalysts. Reacts violently with bases and amines

10.4 Conditions to avoid

Exposure to heat and sunlight.

10.5 Incompatible materials

Strong bases, oxidizing agents, metals

10.6 Hazardous decomposition products

It does not decompose but can develop hydrochloric acid vapors

11. TOXICOLOGICAL INFORMATION (Hydrochloric acid)

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

Acute toxicity LC50 (rat) (inhalation): 4701 ppm

Skin corrosion / irritationCorrosive to the skin

Serious eye damage/irritation Risk of serious eye damage. Rabbit

0.5 ml Cat. 1 (irreversible effects

on the eyes)

Respiratory or skin sensitizationCan cause allergic reaction to the

skin

Germ cell mutagenicityBased on the available data, the

classification criteria are not met

Carcinogenicity Based on the available data, the

classification criteria are not met

Reproductive toxicityBased on the available data, the

classification criteria are not met

STOT – single exposure Highly irritating to the respiratory

tract and lungs

STOT – repeated exposureBased on the available data, the

classification criteria are not met

11.2 Information on other hazards

None

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12.		ECOLOGICAL INFORMATION (Hydrochic	oric acid)	
	12.1	Toxicity	Fish, acute LC50 pH 3.25 norm	nalized to 20.5
			mg / I / 96h	
			Invertebrates: EC50 pH 4.7 no	rmalized to
			0.73 mg / I / 72h	
	12.2	Persistence and degradability	It is not biodegradable and dis	
			water. Adsorption / desorptio impossible	n in the soil is
	12.3	Bioaccumulative potential	Insignificant given the high so	luhility in water
	12.4	Mobility in soil	It does not reach sediment / s	•
		,	therefore cannot be ingested	
			mammals	•
	12.5	Results of PBT and vPvB assessment	Not applicable	
	12.6	Endocrine disrupting properties	No known effects	
	12.7	Other adverse effects	No known effects	
13.		DISPOSAL CONSIDERATIONS		
	13.1.	Waste treatment methods		
		The substance and its packaging must be	e disposed of as hazardous was	ste by
14.		authorized companies. TRANSPORT INFORMATION		
14.	14.1	UN number or ID number	3264	
	14.2	UN proper shipping name	Inorganic liquid, corrosive	acid n o s
	14.2	Old proper simpping name	(hydrochloric acid)	, acia 11.0.3.
	14.3	Transport hazard class(es)	8	
	14.4	Packing group	8 II	
	14.5	Environmental hazards	YES	
	14.5			
	14.6	Special precautions for user	Use approved packaging	
	14.7	Maritime transport in bulk according to IMO instruments	n.a.	
15.		REGULATORY INFORMATION		
	15.1	Safety, health and environmental regul	ations/legislation specific	
		for the substance or mixture		Applicability
		Reg. (EC) 1907/2006 / EC Reach		YES
		Reg. (EC) 1272/2008 CLP and subsequer	•	YES
		Reg. (CE) 2037/2000 "Substances that d	-	NO
		Reg. (EC) 850/2004 "Persistent organic	-	NO
		Reg. (EC) 689/2008 "export and import Substance listed in Annex I of Dir. 2012	_	NO NO
		Legislative Decree 81/2008 Consolidate	·	NO
		safety at work	a Law on nearth and	YES
		Directive 2014/103 / EU "Adr"		YES
		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		NO
		Reg. (CE) 1907/2006/CE Reach - Annex		Limited use
		https://echa.europa.eu/it/substances-	restricted-under-reach	Item 3 - 75
				(check link)

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15.2 Chemical safety assessment

A chemical safety assessment was not carried out

16. OTHER INFORMATION

16.1 Changes compared to the previous edition

Regulatory update

16.2 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

16.3 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

Indication, for mixtures, of which methods of evaluation of the information have been used for the purposes of classification

Classification	Classification procedure
Metal Corrosive 1	Calculation
Skin corrosive 1 C	Calculation
STOS SE 3	Calculation
Acquatic chronic 1	Calculation
Aquatic acute 1	Calculation
Acute Tox 4	Calculation
Skin Sensitive 1	Calculation
Eye Dam.1	Calculation

16.5 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