

Safety data sheet
According to Regulation n. 1907/2006 and Regulation 878/2020
PT 40 R SOLUTION



Revision n. I dd 09.16.2021

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

1.1 Product identifier

Commercial name	Hexachloroplatinic acid in aqueous solution
Product code	153
Registration number	A registration number is not available for this product as it is a mixture
C.A.S. Registry Number	-
CE Number	-
Molecular weight	-
Brut formula	-
Commercial name	PT 40 R solution
Product code	153

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

Intended uses	Raw material for galvanic bath. Industrial uses.
Advised against uses	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 Ph. 0557947819 Poison Control Center of Florence

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture according to Regulation (EC) n. 1272/2008

Hazard classes	Category codes	Hazard statements
Acute Tox	3	H301 Toxic if swallowed.
Skin corrosive	1B	H314 Causes severe skin burns and eye damage.
Resp.Sens.	2	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitive	1	H317 May cause an allergic skin reaction.

2.2 Label elements

Pictograms



Signal words

DANGER

Hazard statements

H301

Toxic if swallowed

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		H314	Causes sever skin burns and eye damage
		H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
		H317	May cause an allergic skin reaction.
	Precautionary statements	P270	Do no eat, drink or smoke when using this product.
		P261	Avoid breathing dust/fume/gas/mist/vapours/sp ray.
		P280	Wear protective gloves/protective clothing/eye protection/face protection.
		P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
		P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
		P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
		P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		P333+P313	If skin irritation or rash occurs: Get medical advice/attention.

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

3.2 Mixture			
Product identifier	Concentration	Classification	
	%	Hazard classes	Category codes
Hexachloroplatinic acid CAS 16941-12-1	80 % ≤ C ≤ 90 %	Acute Tox. 3 Skin Corr. 1 B	H301 H314

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EINECS 241-010-7	Resp. Sens. 1	H334
N. Reach Not available	Skin Sens. 1	H317
EC: 234-014-5		
REACH N °: exempt for quantity		

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Take the injured person to fresh air and keep him warm and at rest
Ingestion	Do not give anything to eat or drink.
Skin contact	Take off contaminated clothing immediately.
Eye contact	Immediately wash skin with plenty of soap and water. Consult a physician.

Recommendation:

- **Need to see a doctor immediately** YES
- **Possibility of delayed effects following exposure** YES
- **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

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

4.3 Indication of any immediate medical attention and special treatment needed

In the event of an accident or discomfort, 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.

Non suitable extinguishing media: No one in particular

5.2 Special hazards arising from the substance or mixture

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Do not inhale the gases produced by the explosion and combustion. Burning produces heavy smoke. Heating can cause the formation of toxic and / or corrosive vapors (chlorine and hydrochloric acid)

5.3 Advice for firefighters

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

If feasible from a safety point of view, move undamaged containers from the area of immediate danger.

Equipment 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

Use:

To 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 to contain a spill

Contain spill with appropriate absorbent material (sand, bentonite) and place in airtight container. Sprinkle with baking soda to neutralize acidity.

6.3.2. Advice 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. Recommendations to manipulate the substance or the mixture in a safe manner, such as containment measures and prevention of fire and aerosol and powders formation

Avoid contact with skin and eyes, inhalation of vapors and mists.

Do not use empty containers before they have been cleaned.

Before transferring operations, make sure that there are no incompatible residual materials in the containers.

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Contaminated clothing must be replaced before entering the dining areas. At work do not eat or drink.

7.1.2. General recommendation on work hygiene

7.2. Conditions for safe storage, including any incompatibilities

Do not eat, drink and smoke in work areas. Wash your hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2.1. 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.

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

Store in a cool, dry place

7.2.4. Conditions for keeping substances / mixtures intact

The packages must be well closed and labeled.

7.2.5. 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 a containment basin.

7.3. Specific end use(s)

Industrial use

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

DNEL exposure limit values: not defined

PNEC Exposure Limit Values: not defined

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Ventilation systems. Emergency showers and eye washing system near the work area.

8.2.2. Individual protection measures, such as personal protective equipment

Eye/face protection Use closed safety goggles, do not use eye lenses.

Skin protection (hands) Gloves for chemical risks compliant with EN420 EN374 Standards

Skin protection (body) Complete clothing compliant with the UNI EN 13034: 2006 standard

Respiratory protection Semi-face masks with ABEK2P3 R filters conforming to EN14387: 2004 + A1: 2008

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Thermal hazards Information not available

8.2.3. Environmental exposure controls

Maintain all environments in suction using localized collection and ambient air exchange systems. Convey the aspirated volumes to an abatement system and then into the atmosphere. Do not use air recirculation suction systems. Avoid any spillage into the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	Red
Odour	Not applicable
Melting point/freezing point	90 ° C
Boiling point or initial boiling point and boiling range	About 105 ° C
Flammability	Not inflammable
Lower and upper explosion limit	Not explosive
Flash point	Not inflammable
Auto-ignition temperature	Not inflammable
Decomposition temperature	Not applicable
pH	<2
Kinematic viscosity	Unavailable
Solubility	Completely soluble in water
Partition coefficient n-octanol/water (log value)	Not applicable
Vapour pressure	1 kPa at 25 ° C
Density and/or relative density	2.2 g / cm ³
Relative vapour density	Not applicable
Particle characteristics	Not applicable

9.2. Other information

10. STABILITY AND REACTIVITY

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- 10.1 Reactivity**
Stable under normal conditions
- 10.2 Chemical stability**
Stable under normal conditions
- 10.3 Possibility of hazardous reactions**
none
- 10.4 Conditions to avoid**
Stable under normal conditions
- 10.5 Incompatible materials**
Strong bases, oxidizing agents, metals
- 10.6 Hazardous decomposition products**
Hydrochloric acid

11. TOXICOLOGICAL INFORMATION

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

- Acute toxicity** Oral LD50 for hexachloroplatinic acid:> 25 but <200 mg / kg in the rat
- Skin corrosion/irritation** Corrosive to the skin
- Serious eye damage/irritation** Risk of serious eye damage.
- Respiratory or skin sensitization** May cause allergy or asthma symptoms or breathing difficulties if inhaled
- Germ cell mutagenicity** Based on available data, the classification criteria are not met
- Carcinogenicity** Based on available data, the classification criteria are not met
- Reproductive toxicity** Based on available data, the classification criteria are not met
- (STOT) single exposure** No data available
- (STOT) repeated exposure** No data available
- Aspiration hazard** Corrosive to the respiratory tract

11.2 Information on others hazards

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Platinum compounds are generally toxic, although the rate of absorption in the gastrointestinal tract is relatively low. Symptoms of platinum intoxication are liver and kidney damage, hearing impairments and sensitization with allergic manifestations in predisposed people. There is no known physiological role of platinum.

12. ECOLOGICAL INFORMATION

12.1	Toxicity	Not dangerous for the environment
12.2	Persistence and degradability	Not applicable
12.3	Bioaccumulative potential	Not applicable
12.4	Mobility in soil	Not applicable
12.5	Results of PBT and vPvB assessment	Not classifies
12.6	Endocrine disrupting properties	No know effects

13. DISPOSAL CONSIDERATIONS

13.1.	Waste treatment methods	Both the mixture and the packaging must be sent to plants authorized for the disposal of industrial waste
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14. TRANSPORT INFORMATION

14.1	UN number or ID number	ONU 2922
14.2	UN proper shipping name	Corrosive, toxic liquid n.o.s. (hexachloroplatinic acid)
14.3	Transport hazard class(es)	8
14.4	Packing group	II
14.5	Environmental hazards	NO
14.6	Special precautions for user	Use approved packaging
14.7	Maritime transport in bulk according to IMO instruments	Not applicable

15. REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	Applicability
	<i>Reg. (CE) 1907/2006/CE Reach</i>	YES
	<i>Reg. (CE) 1272/2008 CLP and subsequent amendements</i>	YES
	<i>Reg. (CE) 2037/2000 "Substances that deplete the ozone layer"</i>	NO
	<i>Reg. (CE) 850/2004 "Persistent organic pollutants"</i>	NO
	<i>Reg. (CE) 689/2008 "Export and import of hazardous chemicals"</i>	NO
	<i>Substance listed in Annex I of Dir. 2012/18/UE cd Seveso</i>	YES
	<i>Directive 81/2008 Consolidated Act on protection of health and work safety</i>	YES

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15.2 *Directive 2014/103/UE "Adr"*
Chemical safety assessment

A chemical safety assessment was not carried out

16. OTHER INFORMATION

Changes compared to the previous edition

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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>

Reporting, for mixtures, which methods of evaluating the information were used for the purposes of classification.

Classification	Classification procedure
Acute tox. 3	Calculation method
Skin Corrosive 1B	Calculation method
Resp. sens. 1	Calculation method
STOT SE 3	Calculation method
Skin sens. 1	Calculation method

Adequate training for workers to guarantee the protection of human health and the environment

- Training on the chemical risk ex Directive 81/08 Title IX dangerous substances
- Training on DPI