

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



Revision n. II – 02.12.2022

Replaces revision n. I – 16.09.2021

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

1.1 Product identifier

Chemical 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
 Commercial name PT 40 R solution

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

111 - Medical helpline operating in England, in Scotland (NHS 24) and in Wales (NHS Direct Wales)

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
 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.

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P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
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	80 ≤ C ≤ 90	Acute Tox. 3	H301
CAS 16941-12-1		Skin Corr. 1 B	H314
EINECS 241-010-7		Resp. Sens. 1	H334
INDEX: not available		Skin Sens. 1	H317
REACH N °: exempt for quantity			
ATE (oral): 100 mg/kg bw			
M factors: not applicable			

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.

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- 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. Raccomentations 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.
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.
- 7.2.2. Control of weather conditions, ambient pressure, temperature, sunlight, humidity, and vibration**
Store in a cool, dry place
- 7.2.3. Conditions for keeping substances / mixtures intact**
The packages must be well closed and labeled.
- 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 a containment basin.
- 7.3. Specific end use(s)**
Industrial use
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
- 8.1. Control parameters**

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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

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

10.1 Reactivity

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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

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

Based on available data, the classification criteria are not met

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

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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

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 amendments</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
	<i>Reg. (CE) 1907/2006/CE Reach art. 59 – Candidate List of Substances of Very High Concern (SVHC)</i>	NO
	<i>Reg. (CE) 1907/2006/CE Reach - Annex XIV – Authorisation List</i>	NO
	<i>Reg. (CE) 1907/2006/CE Reach - Annex XVII – Restriction List</i>	Limited use
	https://echa.europa.eu/it/substances-restricted-under-reach	Item 3 - 75 (check link)
	<i>Directive 2014/103/UE "Adr"</i>	
15.2	Chemical safety assessment	
	A chemical safety assessment was not carried out	

16. OTHER INFORMATION

Changes compared to the previous edition

Regulatory amendment

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

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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 PPE