

Safety data sheet
According to Regulation n. 1907/2006 and Regulation 878/2020
CHLOROPLATINIC ACID Pt 40%



Revision n. III dd 06.18.2021

Replaces revision n. II dd 01.21.2019

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

1.1 Product identifier

Chemical name	Hexachloroplatinic acid
Product code	140
Registration number	A REACH registration number is not available for this product as the annual quantity produced or imported is less than one ton.
C.A.S. Registry Number	26023-84-7
CE Number	241-010-7
Molecular weight	409.81 (anhydrous)
Brute formula	H ₂ PtCl ₆ .nH ₂ O

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

Commercial name	Chloroplatinic acid Pt 40%
Intended uses	Additive for galvanic baths for industrial use
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	H302 Harmful if swallowed.
Skin Corrosive	1B	H314 Causes severe skin burns and eye damage.
Resp. Sens.	1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitive	1	H317 May cause an allergic skin reaction.

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2.2 Label elements
Pictograms



Signal words **DANGEROUS**

Hazard statements

H301	Toxic if swallowed.
H314	Causes severe 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 not eat, drink or smoke when using this product.
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 control center/doctor
P301+P330+P331	IF SWALLOWED Rinse mouth.
P303+P361+P353	Do NOT induce vomiting IN CASE OF CONTACT WITH SKIN (or hair): immediately take off all contaminated clothing. Rinse the skin / take a shower.
P305+P351+P338	IN CASE OF CONTACT WITH 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.

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- 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 Hexachloroplatinic acid, 40% solid salt

CAS Number : 26023-84-7

CE Number : 241-010-7

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.
Immediately wash skin with plenty of soap and water. Consult a physician.
Wash the body completely (shower or bath)
Eye contact Immediately rinse the eyes with plenty of water until the irritation subsides. Do not use eye drops or ointments. Consult an ophthalmologist specialist. Protect the uninjured eye.

Reccomendation:

- **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 DPI** 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 case of an accident or if you feel unwell, consult a doctor immediately. Emergency showers and eye washing systems must be available in the workplace.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

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Suitable extinguishing media: Water spray, carbon dioxide.

media:

Non suitable extinguishing media: None in particular.

media:

5.2 Special hazards arising from the substance or mixture

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 upwind.

6.1.2. For emergency responders

Use :

Chemical risk gloves compliant with EN420 EN374 standards.

Splash goggles compliant with Directive 89/686 / CEE and standard EN166: 2001.

Complete antacid clothing compliant with the UNI EN 13034: 2006 type 6 standard.

Mask with K-type filters compliant with EN14387: 2004 + A1: 2008.

6.2 Environmental precautions

Prevent infiltration into the sewer, ground water 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, sawdust) 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 Any other information

None

6.4 Reference to other sections

None

7. HANDLING AND STORAGE

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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 aereosol 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*

Do not eat, drink, or smoke in work areas; wash hands thoroughly after use and remove contaminated clothing and protective equipment before entering areas where you eat.

7.2. Conditions for 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*

Keep the container tight and sealed until 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*

Local suction 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) Chemical risk gloves compliant with EN420 EN374 standards.

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Skin protection (body)	Complete antacid clothing compliant with the UNI EN 13034: 2006 type 6 standards.
Respiratory protection	Semi-face masks with ABEK2P3 R filters conforming to EN14387: 2004 + A1: 2008
Thermal hazards	Not available data.

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 spill into the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour	Brown
Odour	Not applicable
Melting point/freezing point	60 °C
Boiling point or initial boiling point and boiling range	Not applicable
Flammability	Not flammable
Lower and upper explosion limit	Not explosive
Flash point	Not flammable
Auto-ignition temperature	Not flammable
Decomposition temperature	It decomposes according to various reaction stages up to the metallic Pt at about 500 ° C
pH	< 1 in water at 1 g/l
Kinematic viscosity	Not available
Solubility	Very soluble in water
Partition coefficient n-octanol/water (log value)	Data not available
Vapour pressure	Not available
Density and/or relative density	2.4 g/cm ³
Relative vapour density	Not applicable
Particle characteristics	Data not available

9.2. Other information

None.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

None.

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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	Not defined
Skin corrosion/irritation	Corrosive for the skin
Serious eye damage/irritation	Risk of serious eye damage
Respiratory or skin sensitization	Respiratory tract irritation
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	Not available data
(STOT) repeated exposure	Not available data
Aspiration hazard	Corrosive to the respiratory tract

11.2 Information on other 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

As it is not possible to provide specific data on the mixture, the following data are provided for the substance ammonium vanadate.

12.1 Toxicity	No information available
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 classified
12.6 Endocrine disrupting properties	No known effects

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Either the mixture or packages must be sent to approved facilities for the disposal of industrial wastes.

14. TRANSPORT INFORMATION

14.1 UN number or ID number ONU: 2507

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14.2	UN proper shipping name	Solid chloroplatinic acid
14.3	Transport hazard class(es)	8
14.4	Packing group	III
14.5	Environmental hazards	NO
14.6	Special precautions for user	Approved packaging
14.7	Maritime transport in bulk according to IMO instruments	

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/EU cd Seveso</i>	NO
	<i>Directive 81/2008 Consolidated Act on protection of health and work safety</i>	YES
	<i>Directive 2014/103/UE "Adr"</i>	YES
15.2	Chemical safety assessment A chemical safety assessment was not carried out.	

16. OTHER INFORMATION

Changes compared to the previous edition

Adaptation to regulation 878/2020

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>

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