

Safety information sheet
According to Regulation n. 1907/2006 and Regulation 878/2020
Pt PURE POWDER 999.5 ‰



Revision n. V of 2021.09.27
Replaces revision IV of 2019.10.04

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

1.1 Product identifier

Chemical name	Platinum
C.A.S. Registry Number	7440-06-4
EINECS number	231-116-1
Molecular weight	195,084
Brute formula	Pt
Product code	23

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

Industrial sector: silversmith - galvanic - catalysts

Type of use: Industrial use

Uses advised against: 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).

1.5 Registration number 01-2120733612-61-XXXX

2. HAZARDS IDENTIFICATION : Not dangerous

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

2.2 Label elements: not applicable

2.3 Other hazards None

Results of PBT and vPvB assessment	PBT : non applicable vPvB : non applicable
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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance : Platinum
CAS number 7440-06-4
EINECS number 231-116-1

4. FIRST AID MEASURES

4.1 Description of first aid measures

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Inhalation Not applicable

Ingestion Not applicable

Contact with skin Not applicable

Contact with eyes Not applicable

Recommendations:

- Need to see a doctor immediately NO
- Possibility of delayed effects following exposure NO
- Move the exposed individual from the place of exposure to the open air NO
- Remove the clothing and shoes of the exposed individual NO
- How to handle contaminated clothing NONE
- For those providing first aid, wear PPE NO

4.2 Most important symptoms and effects, both acute and delayed

None

4.3 Indication of any immediate medical attention and special treatment needed

None

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media CO2 fire extinguisher, powder or water spray.

Unsuitable extinguishing media Do not use water on molten metal due to the danger of violent development of steam.

5.2 Special hazards arising from the substance or mixture

Not easily combustible. Possible dust explosion.

5.3 Advice for firefighters

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)

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- 6. ACCIDENTAL RELEASE MEASURES**
- 6.1 Personal precautions, protective equipment and emergency procedures**
- 6.1.1. For non-emergency personnel**
None
- 6.1.2. For emergency responders**
In solid form, the material does not present any spillage problems.
- 6.2 Environmental precautions**
None
- 6.3 Methods and material for containment and cleaning up**
- 6.3.1. Advice in order to contain a spill**
None
- 6.3.2. Advice in order to clean-up a spill**
None
- 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 in order 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 formation of dust
- 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 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**
Avoid formation of dust
- 7.2.2 Containment of the effects of weather conditions, pressure, temperature, sunlight, humidity and vibrations**
None
- 7.2.3. Conditions for keeping substances / mixtures intact**
None
- 7.2.4 Provisions relating to ventilation, specific design of storage rooms or containers, quantitative limits in storage conditions, compatibility of packaging**
None
- 7.3. Specific end use(s)**
Industrial use
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
- 8.1. Control parameters (related to metallic Silver species)**
None
- 8.2. Exposure controls**
- 8.2.1. Appropriate engineering controls**

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If dusts are generated during use, use an extractor hood.

8.2.2. Individual protection measures, such as personal protective equipment

Eye/face protection	Not necessary
Skin protection (hands)	Not necessary
Skin protection (body)	Not necessary
Respiratory protection	Use a dust mask with P3 filters if dust is generated during use
Thermal hazards	None

8.2.3. Environmental exposure controls

None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Grey powder
Odor	Odorless
Odor threshold	Not applicable
pH	Not applicable
Melting point / freezing point	1768.2 ° C
Boiling point	3825 ° C
Flash point	Not inflammable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not inflammable
Upper / lower flammability or explosive limits	Scientifically not justified studies
Vapor pressure	Not applicable
Vapor density	Scientifically not justified studies
Relative density (in solid form)	21.4 g / cm ³ at 20 ° C
The solubility (ies)	Scientifically not justified studies

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Partition coefficient n-octanol / water	Scientifically not justified studies
Self-ignition temperature	Scientifically not justified studies
Decomposition temperature	Scientifically not justified studies
Viscosity	Scientifically not justified studies
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing

9.2. Other information (miscibility, solubility, fat solubility, conductivity, redox potential, radical formation potential and photocatalytic properties)

None

10. STABILITY AND REACTIVITY

10.1 Reactivity

No specific test data related to the reactivity of this product or its ingredients are available.

10.2 Chemical stability

The material is stable

10.3 Possibility of hazardous reactions

Platinum is a catalytic substance and can cause reaction in contact with a large number of organic and inorganic substances with the danger of fire and explosion.

10.4 Conditions to avoid

Formation of dust

10.5 Incompatible materials

Selenium and selenium fluorides

10.6 Hazardous decomposition products

None

11. TOXICOLOGICAL INFORMATION

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

Acute toxicity Non toxic

Skin corrosion / irritation Not corrosive

Serious eye damage/irritation NO

Respiratory or skin sensitization Not sensitizing

Germ cell mutagenicity Not mutagenic

Carcinogenicity Not carcinogenic

Reproductive toxicity Non toxic

STOT – single exposure Not applicable

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	STOT – repeated exposure	Not applicable	
	Aspiration hazard	It can irritate the mucous membranes in case of inhalation of dust	
11.2	Information on other hazards		
	None		
12.	ECOLOGICAL INFORMATION		
12.1	Toxicity	The metal platinum is not toxic to aquatic organisms	
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 applicable	
12.6	Endocrine disrupting properties	Not applicable	
12.7	Other adverse effects		
13.	DISPOSAL CONSIDERATIONS		
13.1.	Waste treatment methods		
	The product can be recovered		
14.	TRANSPORT INFORMATION		
14.1	UN number or ID number	Not applicable	
14.2	UN proper shipping name	Not applicable	
14.3	Transport hazard class(es)	Not applicable	
14.4	Packing group	Not applicable	
14.5	Environmental hazards	Not applicable	
14.6	Special precautions for user	Not applicable	
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
	Reg. (EC) 1907/2006 / EC Reach		YES
	Reg. (EC) 1272/2008 CLP and subsequent changes and additions		YES
	Reg. (CE) 2037/2000 "Substances that deplete the ozone layer"		NO
	Reg. (EC) 850/2004 "Persistent organic pollutants"		NO
	Reg. (EC) 689/2008 "export and import of dangerous chemicals"		NO
	Substance listed in Annex I of Dir. 2012/18 / EU so-called Seveso		NO

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Legislative Decree 81/2008 Consolidated Law on health and safety at work NO

Directive 2014/103 / EU "Adr" NO

15.2 Chemical safety assessment

A chemical safety assessment was not carried out

16. OTHER INFORMATION

16.1 Changes compared to the previous edition

Amendment to section 1

16.2 Acronym 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>

16.4 Adequate training for workers in order to ensure the protection of human health and the environment

- PPE training