| | Safety data sheet according to 1907/2006/EC, Article 31 | |
|--|---|--------------------|
| inting date 21.07.2021 | | Revision: 21.07.20 |
| SECTION 1: Identifi | cation of the substance/mixture and of the com | pany/undertaking |
| · 1.1 Product identifier | | |
| • Trade name: <u>Platinum p</u> o | owder (99.9%) | |
| Item number: 93-7832 CAS Number: 7440-06-4 EC number: 231-116-1 1.2 Relevant identified us No further relevant inform | t <mark>es of the substance or mixture and uses advised against</mark> nation available. | |
| • 1.3 Details of the supplier • Manufacturer/Supplier: Strem Chemicals, Inc. 7 Mulliken Way NEWBURYPORT, MA 01 USA info@strem.com | | |
| • Further information obta • 1.4 Emergency telephone EMERGENCY: CHEMT During normal opening ti | REC: + 1 (800) 424-9300 | |

 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 The substance is not classified according to the CLP regulation.

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- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Precautionary statements
- P314 Get medical advice/attention if you feel unwell.
- P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description
- 7440-06-4 platinum
- · Identification number(s)
- · EC number: 231-116-1

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^{· 2.2} Label elements

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SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- \cdot After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- \cdot 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13.
- · 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

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| · Ingredients with limit values that require | e monuoring ai ine workpiace: |
|---|--|
| 7440-06-4 platinum | |
| WEL Long-term value: 5 mg/m^3 | |
| • Additional information: The lists valid du | uring the making were used as basis. |
| · 8.2 Exposure controls | |
| · Personal protective equipment: | |
| · General protective and hygienic measure | |
| The usual precautionary measures are to | be adhered to when handling chemicals. |
| • Respiratory protection: Not required. | |
| • Protection of hands: | a and unsight and the product (the substance (the propagation |
| | e and resistant to the product/ the substance/ the preparation. to the glove material can be given for the product/ the preparation/ th |
| chemical mixture. | to the glove material can be given for the product/ the preparation/ in |
| | eration of the penetration times, rates of diffusion and the degradation |
| · Material of gloves | |
| | not only depend on the material, but also on further marks of quality an |
| varies from manufacturer to manufacture | |
| · Penetration time of glove material | |
| | found out by the manufacturer of the protective gloves and has to be |
| observed. | |
| • Eye protection: Safety glasses | |
| • 9.1 Information on basic physical and cl | hemical properties |
| · General Information | ······································ |
| · Appearance: | |
| Form: | Powder |
| Colour: | Black |
| · Odour: | Odourless |
| · Odour threshold: | Not determined. |
| · pH-value: | Not applicable. |
| · Change in condition | |
| Melting point/freezing point: | 1.772 °C |
| Initial boiling point and boiling range: | • 3.825 °C |
| · Flash point: | Not applicable. |
| · Flammability (solid, gas): | Not determined. |
| · Ignition temperature: | |
| Decomposition temperature: | Not determined. |
| · Auto-ignition temperature: | Not determined. |
| · Explosive properties: | Product does not present an explosion hazard. |
| | |
| · Explosion limits: | Not determined. |
| • Explosion limits: Lower: | |
| | Not determined. |
| Lower: | Not determined. 1.33 hPa |
| Lower: Upper: · Vapour pressure at 20 °C: · Density at 20 °C: | 1.33 hPa 21.45 g/cm ³ |
| Lower: Upper: • Vapour pressure at 20 °C: | 1.33 hPa |
| Lower: Upper: · Vapour pressure at 20 °C: · Density at 20 °C: | 1.33 hPa 21.45 g/cm ³ |



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|---|--|-----------------|
| · Evaporation rate | Not applicable. | |
| · Solubility in / Miscibility with | | |
| water: | Insoluble. | |
| · Partition coefficient: n-octanol/water: | Not determined. | |
| · Viscosity: | | |
| Dynamic: | Not applicable. | |
| Kinematic: | Not applicable. | |
| · Solvent content: | | |
| Organic solvents: | 0.0 % | |
| VÕC (EC) | 0.00 % | |
| Solids content: | 100.0 % | |
| • 9.2 Other information | No further relevant information available. | |

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- \cdot 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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 Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- $\cdot \textit{Additional ecological information:}$
- General notes: Not known to be hazardous to water.

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· 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

 \cdot 13.1 Waste treatment methods

 $\cdot \textit{Recommendation}$ Disposal must be made according to official regulations.

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

| · 14.1 UN-Number · ADR, IMDG, IATA | UN3089 |
|--|--|
| · 14.2 UN proper shipping name · ADR · IMDG, IATA | 3089 METAL POWDER, FLAMMABLE, N.O.S. METAL POWDER, FLAMMABLE, N.O.S. |
| · 14.3 Transport hazard class(es) | |
| ADR, IMDG, IATA | |
| | |
| · Class | 4 |
| · Label | 4.1 |
| · 14.4 Packing group · ADR, IMDG, IATA | III |
| - 14.5 Environmental hazards: Marine pollutant: | No |
| • 14.6 Special precautions for user • Segregation groups | Not applicable. Heavy metals and their salts (including their organometalli compounds), powdered metals |
| Stowage Category | A |
| Handling Code | H1 Keep as dry as reasonably practicable |
| Segregation Code | SG17 Stow "separated from" class 5.1 SG25 Stow "separated from" goods of classes 2.1 and 3. SG26 In addition: from goods of classes 2.1 and 3 whe stowed on deck of a containership a minimum distance of tw container spaces athwartship shall be maintained, whe stowed on ro-ro ships a distance of 6 m athwartship shall b maintained. |
| · 14.7 Transport in bulk according to Ann Marpol and the IBC Code | ex II of Not applicable. |

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|--|---|
| · Transport/Additional information: | |
| · ADR | |
| · Limited quantities (LQ) | 5 kg |
| \cdot Excepted quantities (EQ) | Code: El |
| | Maximum net quantity per inner packaging: 30 g |
| | Maximum net quantity per outer packaging: 1000 g |
| · IMDG | |
| Limited quantities (LQ) | 5 kg |
| Excepted quantities $(\widetilde{E}Q)$ | Code: El |
| | Maximum net quantity per inner packaging: 30 g |
| | Maximum net quantity per outer packaging: 1000 g |
| · UN ''Model Regulation'': | UN 3089 METAL POWDER, FLAMMABLE, N.O.S., 4.1, III |

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Technical Department.

- · Contact: Technical Director
- Abbreviations and acronyms:

vPvB: very Persistent and very Bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic