

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
 CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

## MATERIAL SAFETY DATA SHEET (MSDS)

### PLATINUM METAL POWDER

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE

Product name : Platinum  
 CAS-No. : 7440-06-4

Product Coad: P0161900005

Formula : Pt  
 Molecular Weight : 195,08 g/mol

#### 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture  
 Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.  
 This substance is not classified as dangerous according to Directive 67/548/EEC.  
 Label elements  
 Labelling according Regulation (EC) No 1272/2008 [CLP]  
 Pictogram none  
 Signal word none  
 Hazard statement(s) none  
 Precautionary statement(s) none  
 Supplemental Hazard none  
 Statements  
 Safety data sheet available on request.  
 Other hazards  
 Possible sensitizer.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances  
 CAS-No. 7440-06-4 -  
 EC-No. 231-116-1  
 \* PBT substance, \*\* vPvB substance, \*\*\* WEL substance

#### 4. FIRST AID MEASURES

Description of first aid measures  
 If inhaled  
 If breathed in, move person into fresh air. If not breathing, give artificial respiration.  
 In case of skin contact  
 Wash off with soap and plenty of water.  
 In case of eye contact  
 Flush eyes with water as a precaution.  
 If swallowed  
 Never give anything by mouth to an unconscious person. Rinse mouth with water.  
 Most important symptoms and effects, both acute and delayed  
 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.  
 Indication of any immediate medical attention and special treatment needed  
 no data available

#### Section 5. FIREFIGHTING MEASURES

Extinguishing media  
 Suitable extinguishing media  
 Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
 Special hazards arising from the substance or mixture  
 no data available  
 Advice for firefighters  
 Wear self contained breathing apparatus for fire fighting if necessary.  
 Further information  
 no data available

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#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures  
 Avoid dust formation. Avoid breathing vapors, mist or gas.  
 Environmental precautions  
 No special environmental precautions required.  
 Methods and materials for containment and cleaning up  
 Sweep up and shovel. Keep in suitable, closed containers for disposal.  
 Reference to other sections  
 For disposal see section 13.

#### 7. HANDLING AND STORAGE

Precautions for safe handling  
 Provide appropriate exhaust ventilation at places where dust is formed.  
 Conditions for safe storage, including any incompatibilities  
 Store in cool place. Keep container tightly closed in a dry and well-ventilated place.  
 Handle and store under inert gas.  
 Specific end uses  
 no data available

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters  
 Components with workplace control parameters  
 Exposure controls  
 Appropriate engineering controls  
 General industrial hygiene practice.  
 Personal protective equipment  
 Eye/face protection  
 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).  
 Skin protection  
 Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.  
 The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.  
 Body Protection  
 Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.  
 Respiratory protection  
 Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties  
 a) Appearance Form: Wire  
 b) Odour no data available  
 c) Odour Threshold no data available  
 d) pH no data available  
 e) Melting point/freezing Melting point/range: 1.772 °C  
 point  
 f) Initial boiling point and 3.827 °C  
 boiling range  
 g) Flash point not applicable  
 h) Evaporation rate no data available  
 i) Flammability (solid, gas) no data available  
 j) Upper/lower no data available  
 flammability or explosive limits  
 k) Vapour pressure no data available

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l) Vapour density no data available

 m) Relative density 21,45 g/cm<sup>3</sup>  
 n) Water solubility no data available  
 o) Partition coefficient: n- no data available  
 octanol/water  
 p) Autoignition no data available  
 temperature  
 q) Decomposition no data available  
 temperature  
 r) Viscosity no data available  
 s) Explosive properties no data available  
 t) Oxidizing properties no data available  
 Other safety information no data available

**10. STABILITY AND REACTIVITY**

 Reactivity no data available  
 Chemical stability no data available  
 Possibility of hazardous reactions no data available  
 Conditions to avoid no data available  
 Incompatible materials Strong oxidizing agents, Alcohols  
 Hazardous decomposition products no data available

**11. TOXICOLOGICAL INFORMATION**

 Information on toxicological effects  
 Acute toxicity no data available  
 Skin corrosion/irritation no data available  
 Serious eye damage/eye irritation no data available  
 Respiratory or skin sensitization  
 Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.  
 Germ cell mutagenicity no data available  
 Carcinogenicity  
 Carcinogenicity - rat - Implant  
 Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application.  
 Carcinogenicity - mouse - Implant  
 Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application.  
 IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
 Reproductive toxicity no data available  
 Specific target organ toxicity - single exposure no data available  
 Specific target organ toxicity - repeated exposure no data available  
 Aspiration hazard no data available  
 Potential health effects  
 Inhalation May be harmful if inhaled. May cause respiratory tract irritation.  
 Ingestion May be harmful if swallowed.  
 Skin May be harmful if absorbed through skin. May cause skin irritation.  
 Eyes May cause eye irritation.  
 Signs and Symptoms of Exposure  
 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.  
 Additional Information  
 RTECS: TP2160000

**12. ECOLOGICAL INFORMATION**

 Toxicity no data available  
 Persistence and degradability no data available  
 Bioaccumulative potential no data available  
 Mobility in soil no data available  
 Results of PBT and vPvB assessment no data available  
 Other adverse effects no data available

**13. DISPOSAL CONSIDERATIONS**

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Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

**14. TRANSPORT INFORMATION**

Not Regulated

**15 - REGULATORY INFORMATION**

N/A

**16. Other Information****Product Use:** Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
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- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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