

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Manufacturer/Supplier:

ESPI Metals

1050 Benson Way, Ashland, OR 97520

Toll Free (800) 638-2581 * Fax (541) 488-8313

E-Mail: sales@espimetals.com

Product Name: Platinum

Formula: Pt

CAS Number: 7440-06-4

II. HAZARDOUS INGREDIENTS

Hazardous Component:	Platinum
Percent (%):	0-100
OSHA/PEL:	1 mg/m ³
ACGIH/TLVL:	1 mg/m ³
HMIS Rating (Powder):	
Health:	1
Flammable:	3
Reactivity:	1
HMIS Rating (Solid):	
Health:	0
Flammability:	0
Reactivity:	0

III. PHYSICAL DATA

Boiling Point: 3827 °C

Melting Point: 1772 °C

Specific Gravity: 21.45 g/cm³

Platinum | Platinum

Solubility in H₂O: Insoluble

Appearance and Odor: White metal, no odor

IV. FIRE AND EXPLOSION HAZARDS DATA

Flash Point: N/A

Autoignition Temperature: N/A

Flammable Limits: Upper: N/A Lower: N/A

Extinguishing Media: Use foam, carbon dioxide, dry sand, dry ground dolomite, dry powder extinguishing agents.

Special Firefighting Procedures: If involved in a fire wear NIOSH/MSHA approved self-contained breathing apparatus, flame and chemical resistant protective clothing, hat, gloves and boots. If without risk move material out of fire area.

Unusual Fire & Explosion Hazard: Can be flammable in powdered form when exposed to excessive heat.

V. HEALTH HAZARD INFORMATION

Effects of Exposure:

To the best of our knowledge the chemical, physical and toxicological properties of platinum have not been thoroughly investigated and recorded.

Platinum is considered to have low toxicity. Exposure to dust of pure metallic form may cause skin sensitization and irritation to the eyes. Ingestion and inhalation may have irritating effects.

http://www.espimetals.com/index.php/msds/228-platinum?tmpl=component&print=1&page= (3 of 7) [2/24/2012 12:10:03 PM]

Platinum | Platinum

Acute Effects:

Inhalation: Inhalation of dust may cause irritation of the respiratory tract with coughing, wheezing and difficulty breathing.

Ingestion: No adverse effects expected.

Skin: May cause irritation and allergic reaction.

Eye: May cause irritation.

Chronic Effects: None known

Medical Conditions Generally Aggravated by Exposure: None known

Carcinogenicity: NTP: No IARC: No OSHA: No

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician.

INGESTION: Procedures normally not needed. If large quantities are ingested, seek medical advice.

SKIN: Immediately wash skin with soap and plenty of water. If irritation persists, call a physician.

EYE: Flush eyes with plenty of water. If irritation develops, call a physician.

VI. REACTIVITY DATA

Stability: Stable

Platinum | Platinum

Conditions to Avoid: None expected

Incompatibility (Material to Avoid): Aqua regia, molten alkali cyanides. Attacked by halogens, by fusion with caustic alkalies, alkali nitrates, alkali peroxides, by arsenates and phosphates in presence of reducing agents. Strong oxidizers, and organic materials.

Hazardous Decomposition Products: Chloroplatinic acid

Hazardous Polymerization: Will not occur

VII. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled: Wear appropriate respiratory protection and protective clothing specified in section VIII. Scoop up or vacuum using a high efficiency particulate absolute HEPA filter and place the spilled material into a container for reclamation or disposal. Take care not to raise dust.

Waste Disposal Method: Dispose of in accordance with State, Federal and Local regulations.

VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection: A NIOSH/MSHA approved dust respirator is recommended if dust is generated.

Ventilation: Local exhaust ventilation as necessary to control any air contaminants to within their PEL's or TLV's during the use of this material.

Protective Gloves: Chemical resistant gloves should be worn.

Eye Protection: Safety glasses (with side shields)

Other Protective Equipment: Body protection as necessary to prevent skin contact.

IX. SPECIAL PRECAUTIONS

Precautions to Be Taken in Handling and Storage: Store in a cool, dry location away from incompatible materials. Keep container tightly closed. Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Avoid generating or breathing dust. Use only with adequate ventilation.

Work Practices: Implement engineering and work practice controls to reduce and maintain concentration of exposure. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air. Maintain eyewash capable of sustained flushing, safety drench shower and facilities for washing.

TSCA Listed: Yes	
DOT Regulations:	
Solid Forms:	
Hazard Class:	None
Sponge and Powder:	
Hazard Class:	4.1
Identification Number:	3089
Packing Group:	111
Proper Shipping Name:	Metal powder, flammable, n.o.s. (platinum)

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a

guide. ESPI shall not be held liable for any damage resulting from handling or from contact with the above product.

Issued by:S. DierksRevised/Verified:October 2010