



### SECTION 1: Product Identification

Chemical Name: Platinum powder (99.9%)

Product Number: 200

CAS Registry  
Number: 7440-06-4

Formula: Pt

EINECS Number: 231-116-1

Chemical Family: metal or element

Synonym: None

### SECTION 2: Composition and Information on Ingredients

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title Compound	7440-06-4	100	1mg/m3	no data

### SECTION 3: Hazards Identification

Emergency Overview: May be irritating to skin, eyes and respiratory tract.

Primary Routes of  
Exposure: Ingestion, eyes, inhalation

Eye Contact: May cause slight to mild irritation of the eyes

Skin Contact: May cause slight to mild irritation of the skin.

Inhalation: The material is a fine powder. May be irritating to the nose, mucous membranes and respiratory tract.

Ingestion: No specific information is available on the physiological effects of ingestion.

Acute Health Effects: May be irritating to skin, eyes and respiratory tract.

Chronic Health  
Effects: No information available on long-term chronic effects

NTP: No

IARC: No

OSHA: No



#### SECTION 4: First Aid Measures

Eye Exposure:	Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.
Skin Exposure:	Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
Inhalation:	Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.
Ingestion:	Seek medical attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

#### SECTION 5: Fire Fighting Measures

Flash Point:	not applicable
Autoignition Temperature:	not applicable
Explosion Limits:	not applicable
Extinguishing Medium:	Dry chemical or Class D metal fire agent.
Special Fire Fighting Procedures:	If involved in a fire, firefighters should be equipped with a NIOSH approved positive pressure self contained breathing apparatus and full protective clothing.
Hazardous Combustion and Decomposition Products:	None
Unusual Fire or Explosion Hazards:	Highly flammable. Dust may form explosive mixtures with air. May self ignite if wetted with alcohols or related organics.

#### SECTION 6: Accidental Release Measures

Spill and Leak Procedures:	Small spills can be mixed with vermiculite or sodium carbonate and swept up.
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#### SECTION 7: Handling and Storage

Handling and Storage:	No special storage or handling conditions required.
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## SECTION 8: Exposure Controls and Personal Protection

Eye Protection:	Always wear approved safety glasses when handling a chemical substance in the laboratory.
Skin Protection:	Wear protective clothing and gloves.
Ventilation:	Material may form a fine dust. If possible, handle the material in an efficient fume hood.
Respirator:	If ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 1910.134.
Additional Protection:	No additional protection required.

## SECTION 9: Physical and Chemical Properties

Color and Form:	0.27-0.47 micron powder
Molecular Weight:	195.09
Melting Point:	1769°C
Boiling Point:	3827°C
Vapor Pressure:	no data
Specific Gravity:	21.45
Odor:	None
Solubility in Water:	insoluble

## SECTION 10: Stability and Reactivity

Stability:	air and moisture-stable solid
Hazardous Polymerization:	no hazardous polymerization
Conditions to Avoid:	None
Incompatibility:	Aqua regia, halogens. The metal may be pyrophoric if saturated with hydrogen gas.
Decomposition Products:	None

## SECTION 11: Toxicological Information



RTECS Data: Intraperitoneal(mouse); LD50: 17 mg/kg. Oral (rat); TDLo: 9100mg/kg/26W-I. Implant (rat); TDLo: 5250mg/kg(tumors at site of application). Implant (mouse); TDLo: 23g/kg(tumors at site of application).

Carcinogenic Effects: Equivocal tumorigenic agent by RTECS criteria.

Mutagenic Effects: No data available

Tetratogenic Effects: No data available

## SECTION 12: Ecological Information

Ecological Information: No information available. This product is not expected to present an environmental problem.

## SECTION 13: Disposal Considerations

Disposal: Dispose of according to local, state and federal regulations.

## SECTION 14: Transportation

Shipping Name (CFR): Metal Powder, Flammable, N.O.S.

Hazard Class (CFR): 4.1

Additional Hazard Class (CFR): NA

Packaging Group (CFR): III

UN ID Number (CFR): UN# 3089

Shipping Name (IATA): Metal Powder, Flammable, N.O.S.

Hazard Class (IATA): 4.1

Additional Hazard Class (IATA): NA

Packaging Group (IATA): III

UN ID Number (IATA): UN# 3089

## SECTION 15: Regulatory Information



TSCA: Listed in the TSCA inventory.

SARA (Title 313): Not reportable under SARA Title 313.

Second Ingredient: None

Third Ingredient: None