

## Safety Data Sheet

**Product No. 23-10, 23-2, 23-50, 60001, 82, 91114, 91214, 91523, 91533, 91583, 9553, 9566, Platinum Products, Apertures, Aperture Flamers, Boats, Evaporation Materials, Targets, Wire**  
**Issue Date (04-21-15)**  
**Review Date (08-24-17)**

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### Section 1: Product and Company Identification

**Product Name: Platinum Products, Apertures, Aperture Flamers, Boats, Evaporation Materials, Targets, Wire**

Synonym: none

#### Company Name

**Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477**

Inside USA and Canada 1-800-237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

Outside USA and Canada 1-530-243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

**CHEMTREC USA and Canada Emergency Contact Number 1-800-424-9300 24 hours a day**

**CHEMTREC Outside USA and Canada Emergency Contact Number +1-703-741-5970 24 hours a day**

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### Section 2: Hazard Identification

#### 2.1 Classification of the substance or mixture

This substance is not classified as hazardous to health or environment according to the CLP regulation.

**GHS Pictograms:** NA

**GHS Categories:** None

#### 2.2 Label elements

Labeling according to Regulation (EC) No. 1272/2008: NA

**Hazard pictograms:** NA

**Signal Word:** NA

**Hazard statements:** NA

**Precautionary statements:** NA

#### 2.3 Other hazards

Platinum powder is flammable

#### Health Effects:

HMIS® Hazard Rating: Platinum Metal Powder, Health: 2; Flammability: 3; Physical: 3;

Chronic Health: \*

HMIS® Hazard Rating: Platinum Metal, Health: 1; Flammability: 0; Physical: 0

NFPA Hazard Rating: Platinum Metal Powder, Health: 2; Fire: 3; Reactivity: 3

NFPA Hazard Rating: Platinum Metal, Health: 1; Fire: 0; Reactivity: 0

(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

#### Results of PBT and vPvB assessment:

PBT: NA

vPvB: NA

#### Emergency overview

Appearance: Bright to Silver gray, lustrous malleable and ductile solid material. Disc,

sheets, wire, pellets and powder.

Immediate effects: Platinum Metal: Low toxicity. The alloys as sold in solid form are generally not considered hazardous. However, if the process involves grinding, melting, cutting or any other process that causes a release of dust or fumes, hazardous levels of airborne particulates could be generated. Platinum Powder: Flammable solid and target organ effect. Ingestion and inhalation may have irritating effects.

#### Potential health effects

Primary Routes of entry: Inhalation, Ingestion and Skin and Eye contact of dust, powders

Signs and Symptoms of Overexposure: ND

Eyes: Exposure to dust of pure metallic finely-divided form may cause irritation to the eyes.

Skin: Exposure to dust of pure metallic finely-divided form may cause skin sensitization.

Ingestion: Ingestion may have irritating effects.

Inhalation: Inhalation of dust or finely-divided form may have irritating effects.

Chronic Exposure: ND

Chemical Listed As Carcinogen or Potential Carcinogen: None

See Toxicological Information (Section 11)

#### Potential environmental effects

See Ecological Information (Section 12)

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### Section 3: Composition / Information on Ingredients

Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL mg/m <sup>3</sup>	ACGIH TLV mg/m <sup>3</sup>	NTP Carcinogen	IARC Carcinogen	OSHA regulated Carcinogen
Platinum (7440-06-4) EC-No. 231-115-1	≤100	1*	1*	No	No	No

\*Platinum powder

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### Section 4: First Aid Measures

#### If accidental overexposure is suspected

Eye(s) Contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Skin Contact: Generally not a skin irritant.

Inhalation: Seek medical attention in case of complaints.

Ingestion: If symptoms persist, contact a doctor.

#### Note to physician

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

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### Section 5: Fire Fighting Measures

Flash Point: NA

Flammable Limits: NA

Auto-ignition point: NA

Fire Extinguishing Media: Special powder for metal fires. Do not use water.

Special Fire Fighting Procedures: Self-contained breathing apparatus should be worn when fighting metal dust fires. High levels of dust or fine particles in the air may ignite or explode.

Unusual Fire and Explosion Hazards: Dust, powder and fumes are flammable or explosive when exposed to heat, to flame or by chemical reaction with oxidizing agents.

Hazardous combustion products: Metal oxide fumes.  
DOT Class: Platinum metal powder: Flammable solid.

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### **Section 6: Accidental Release Measures**

Steps to be Taken in Case Material is Released or Spilled: In solid form this material poses no special clean-up problems. Use normal clean up procedures; wet sweeping or HEPA vacuum, for clean-up of dust or powder. Do not use compressed air for cleaning.  
Waste Disposal Methods: Dispose of waste according to Federal, State and Local Regulations.

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### **Section 7: Handling and Storage**

Precautions to be taken in Handling and Storage: Store in a cool, dry place and keep container tightly sealed. Do not store with acids. Store away from oxidizing agents.

Storage temperature: NA

Storage Pressure: NA

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### **Section 8: Exposure Controls / Personal Protection**

#### **Engineering Controls**

Ventilation required: Use mechanical local exhaust ventilation adequate to maintain airborne concentrations of all components and their decomposition products to within their respective OSHA PELs.

#### **Personal Protection Equipment**

Respiratory protection: Not normally required. Use an appropriate NIOSH approved respirator if airborne dust concentration exceed the OSHA, PEL or ACGIH, TLV.

Protective gloves: Wear protective gloves.

Skin protection: Wear protective clothing adequate to prevent contact.

Eye protection: Wear eye protection (safety glasses or dust proof goggles) to prevent contact with dust.

Additional clothing and/or equipment: Eyewash station.

#### **Exposure Guidelines**

See Composition/Information on Ingredients (Section 3)

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### **Section 9 Physical and Chemical Properties**

Appearance and Physical State: Silvery-white solid

Odor (threshold): None (NA)

Specific Gravity (H<sub>2</sub>O=1): 21.45 g/cm<sup>3</sup>

Vapor Pressure (mm Hg): NA

Vapor Density (air=1): NA

Percent Volatile by volume: NA

Evaporation Rate (butyl acetate=1): NA

Boiling Point: 3825 °C

Melting point: 1768.4 °C

pH: NA

Solubility in Water: Insoluble

Molecular Weight: ND

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### **Section 10: Stability and Reactivity**

**Stability:** Stable when properly stored.

**Conditions to Avoid:** Avoid conditions that create dust or fumes.

**Materials to Avoid (Incompatibility):** Incompatible with acetone, nitrosyl chloride, arsenic, dioxygen difluoride, ethanol, hydrazine, hydrogen, hydrogen peroxide, lithium, ozonides, peroxymonosulfuric acid, phosphorous, selenium, tellurium, acetylene,

aluminum. Aqua regia, molten alkali cyanides. Attacked by halogens, by fusion with caustic alkalis, alkali nitrates, alkali peroxides, by arsenates and phosphates in the presence of reducing agents. Strong oxidizers, alcohols and organic materials.

**Hazardous Decomposition Products:** Metal oxide fumes. Chloroplatinic acid.

**Hazardous Polymerization:** Will not occur.

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### **Section 11: Toxicological Information**

Results of component toxicity test performed:

Acute toxicity: The Register of Toxic Effects of Chemical Substance (RTECS) contains acute toxicity data for this material.

Human experience:

This product **does not** contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

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### **Section 12: Ecological Information**

Ecological Information: In solid form this material poses no special environmental problems. Metal powder or dust in may have significant impact on air and water quality.

Environmental considerations: Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted or large quantities to reach ground water, water course or sewage system.

Chemical Fate Information: ND

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### **Section 13 Disposal Considerations**

RCRA 40 CFR 261 Classification: Recycle platinum products.

Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

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### **Section 14: Transportation Information**

**Solid Platinum forms as pellets, sheets, targets wire are not regulated.**

#### **Platinum metal powder is regulated.**

US DOT Information: Proper shipping name: Metal, Powder, Flammable, n.o.s.

(Platinum Powder)

Hazard Class: 4.1

Packaging group: III

UN Number: UN3089

IATA: Proper shipping name: Metal, Powder, Flammable, n.o.s. (Platinum Powder)

Hazard Class: 4.1

Packing group: III

UN Number: UN3089

IMO: Proper shipping name: Metal, Powder, Flammable, n.o.s. (Platinum Powder)

Hazard Class: 4.1

UN Number: UN3089

Packing group: III

Marine Pollutant: No

Canadian TDG: Proper shipping name: Metal, Powder, Flammable, n.o.s. (Platinum Powder)

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### **Section 15: Regulatory Information**

#### **United States Federal Regulations**

SDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.

SARA (Section 302): No.

SARA Title III (Sections 311/312): Powders-fire hazard, chronic health hazard.

SARA Title III (Section 313): None.

RCRA: No.

TSCA: Platinum metal powder is listed TSCA inventory 8 (b).

CERCLA: No

### **State Regulations**

California Proposition 65: No

### **International Regulations**

Canada WHMIS: Class B-4: Flammable solid.

Europe EINECS Numbers: 231-116-1

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### **Section 16: Other Information**

Label Information: ND

European Risk and Safety Phrases: Platinum metal powders:

R11- Highly flammable.

R36/38- Irritating to eyes and skin.

S2- Keep out of the reach of children.

S46- If swallowed, seek medical advice immediately.

European symbols needed: ND

Canadian WHMIS Symbols: ND

### **Abbreviations used in this document**

NE= Not established

NA= Not applicable

NIF= No Information Found

ND= No Data

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### **Disclaimer**

Ted Pella, Inc. makes no warranty of any kind regarding the information furnished herein. Users should independently determine the suitability and completeness of information from all sources. While this data is presented in good faith and believed to be accurate, it should be considered only as a supplement to other information gathered by the user. It is the User's responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with or otherwise come in contact with these materials.