

## Safety Data Sheet

**Product No. 91120, 91576, 9571 Iridium Targets, Iridium Products**

**Issue Date (10-02-10)**

**Review Date (11-21-14)**

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### Section 1: Product and Company Identification

**Product Name: Iridium Products**

Synonym: None

**Company Name**

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

**Domestic Phone (800) 237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)**

**International Phone (01) (530) 243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)**

**Chemtrec Emergency Number 1-800-424-9300 24 hrs a day.**

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### Section 2: Hazard Identification

GHS Pictograms:



Signal Word  
DANGER

GHS Classification:

Flammable solids (Category 1). Powders only.

Eye irritation (Category 2A)

GHS Label elements, including precautionary statements

Hazard statement(s):

H228 Flammable solid. Powders only.

H319 Causes serious eye irritation.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS Classification: Health hazard: 2 Flammability: 0 Physical hazards: 3

NFPA Rating: Health hazard: 2 Fire: 0 Reactivity Hazard: 3

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

#### Emergency overview

Appearance: Silver white foil disc, wire. Powder

Immediate effects: Powders: Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

#### Potential health effects

Primary Routes of entry: Powders, Inhalation, Ingestion

Signs and Symptoms of Overexposure: ND

Eyes: Powders: Acute; May cause abrasive irritation, itching and watering. Chronic; NA

Skin: Powders: Acute; May cause abrasive irritation, redness and itching. Chronic; NA

Ingestion: Acute; NA Chronic; NA

Inhalation: Powders: Acute; May cause irritation (dry throat) Chronic; NA

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**

<b>Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)</b>	<b>%</b>	<b>OSHA PEL mg/m<sup>3</sup></b>	<b>ACGIH TLV mg/m<sup>3</sup></b>	<b>NTP</b>	<b>IARC</b>	<b>OSHA regulated</b>
Iridium (7439-88-5)	100	NE	NE	No	No	no

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### **Section 4: First Aid Measures**

#### **If accidental overexposure is suspected**

Eye(s) Contact: Flush eyes with lukewarm water lifting up the upper and lower lids for at least fifteen minutes.

Skin Contact: Remove contaminated clothing; brush material off skin. Wash affected area with soap or mild detergent.

Inhalation: Remove from exposed area to fresh air immediately; keep warm and quiet, give oxygen if breathing is difficult.

Ingestion: ND

#### **Note to physician**

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

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### **Section 5: Fire Fighting Measures**

Flash Point: ND

Flammable Limits: ND

Auto-ignition point: ND

Fire Extinguishing Media: Class D or other extinguishing agent. Do not use water.

Special Fire Fighting Procedures: ND

Unusual Fire and Explosion Hazards: Powders: May ignite spontaneously in air. Violent reaction or ignition on contact with interhalogens. Iridium is attacked by F<sub>2</sub> and Cl<sub>2</sub> at red heat; by potassium sulfate or a mixture of potassium hydroxide and nitrate, on fusion.

Lead, zinc and tin. Does not tarnish in air, on heating strongly, a slightly volatile oxide is formed.

Hazardous combustion products: None.

DOT Class: None

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

Steps to be Taken in Case Material is Released or Spilled: Powders: Wear appropriate respiratory and protective equipment. Isolate the area where the spill occurred and provide ventilation. Vacuum up the spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Take care not to raise dust.

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: 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.

Storage temperature: Store in a cool dry place

Storage Pressure: NA

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

#### **Engineering Controls**

Ventilation required: To maintain concentration at low levels. Mechanical ventilation Recommended. Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels.

#### **Personal Protection Equipment**

Respiratory protection: Powders: approved dust respirator.

Protective gloves: Powders: Rubber gloves

Skin protection: Powders: Wear protective gear suitable to prevent contact.

Eye protection: Powders: Safety glasses or goggles.

Additional clothing and/or equipment: ND

#### **Exposure Guidelines**

See Composition/Information on Ingredients (Section2)

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

Appearance and Physical State: Silver white foil disc, powder, wire

Odor (threshold): None

Specific Gravity (H<sub>2</sub>O=1): 22.4 g/cc

Vapor Pressure (mm Hg): NA

Vapor Density (air=1): NA

Percent Volatile by volume: NA

Evaporation Rate (butyl acetate=1): NA

Boiling Point: 4500 °C @760.00mm Hg

Freezing point / melting point: 2443 °C

pH: NA

Solubility in Water: Insoluble.

Molecular Weight: 192.20

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

Stability: Stable

Conditions to Avoid: Powders: Ignition sources, dust generation

Materials to Avoid (Incompatibility): Interhalogens, fluorine, chlorine, potassium sulfate, potassium hydroxide, sodium peroxides and potassium nitrate. Zinc, lead, Tin.

Hazardous Decomposition Products: None.

Hazardous Polymerization: Will not occur.

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## **Section 11: Toxicological Information**

Results of component toxicity test performed: ND

Human experience: ND

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: ND

Chemical Fate Information: ND

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## **Section 13 Disposal Considerations**

RCRA 40 CFR 261 Classification: ND. Recycle metal.

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**

**Foils and Disc are not regulated.**

**Powders Only:**

US DOT Information: Proper shipping name: Metal Powder, Flammable N.O.S. (Iridium powder)

Hazard Class: 4.1

Packaging group: III

UN Number: 3089

IATA: Proper shipping name: Metal Powder, Flammable N.O.S. (Iridium powder)

Hazard Class: 4.1

Packing group: III

UN Number: UN3089

Marine Pollutant: No

Canadian TDG: Metal Powder, Flammable N.O.S. (Iridium powder)

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## **Section 15: Regulatory Information**

### **United States Federal Regulations**

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

SARA Title III: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De minimis) reporting levels established by SARA Title III, Section 313 SARA 311/312

Hazards Fire Hazard, Acute, Health Hazard

RCRA: ND

TSCA: Listed on the TSCA Inventory

CERCLA: ND

**State Regulations**

California Proposition 65: None

**International Regulations**

Canada WHMIS: ND

Europe EINECS Numbers: 231-095-9

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**Section 16: Other Information**

**Abbreviations used in this document**

NE= Not established

NA= Not applicable

NIF= No Information Found

ND= No Data

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**Disclaimer**

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