



### Safety Data Sheet

**Product No. 29-47, 25-10, 25-50, 61-310, 91129, 91118, Silver Products, Pieces, Targets**

**Issue Date (11-12-15)**

**Review Date (10-15-18)**

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#### Section 1: Product and Company Identification

**Product Name: , Silver Products, Pieces, Targets**

Synonym: , Silver

#### 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

GHS Pictograms: None. Not considered a hazardous substance.

GHS Categories: None known.

**Classification according to Regulation (EC) No 1272/2008:** This substance is not classified as hazardous to health or the environment according to the CLP regulation.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC:** Not applicable.

**Signal Word: NA**

**Hazard pictograms:** Not applicable.

**Hazard statements:** Not applicable.

**WHMIS classification:** Not controlled.

#### Health Effects:

NFPA Hazard Rating: Health: ND; Fire: ND; Reactivity: ND

HMIS® Hazard Rating: Health: 0; Fire: 0; Reactivity: 0

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

Results of PBT and vPvB assessment: A chemical safety assessment has not been carried out.

PBT: ND

vPvB: ND

**Emergency overview:**

Appearance: Silver solid in various sizes.

Immediate effects:

**Potential health effects**

Primary Routes of entry: Skin and eye contact.

Signs and Symptoms of Overexposure: ND

Eyes: In finely divided form, may cause eye irritation.

Skin: Not considered hazardous in solid form. In finely divided form, may cause skin irritation, discoloration, or contact dermatitis.

Ingestion: In finely divided form, may cause vomiting, abdominal pain, and/or collapses.

Inhalation: Acute inhalation exposure to silver may produce argyria, a permanent blue-gray discolorization of the skin, eyes, mucous membranes, and respiratory tract.

Chronic Exposure: ND

Chemical Listed As Carcinogen or Potential Carcinogen: No

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/m3</b>	<b>ACGIH TLV mg/m3</b>	<b>NTP Carcinogen</b>	<b>IARC Carcinogen</b>	<b>OSHA regulated Carcinogen</b>
Silver (7440-22-4) EC-No: 231-131-3	~99.99	0.01	0.1	No	No	No

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**Section 4: First Aid Measures**

**If accidental overexposure is suspected**

Eye(s) Contact: Flush affected areas with water for at least 15 minutes. Seek medical assistance if necessary.

Skin Contact: Remove contaminated clothing; wash affected area with large quantities of water for at least five minutes. Seek medical attention. Generally product does not irritate skin.

Inhalation: If signs and symptoms of toxicity are observed, remove subject from contaminated area, administer oxygen and seek medical attention. Keep the subject warm and at rest. Perform artificial respiration if necessary.

Ingestion: Seek immediate medical assistance.

**Note to physician**

Treatment: ND

Medical Conditions generally Aggravated by Exposure: Pre-existing pulmonary diseases may be aggravated by inhalation exposure, particularly as fume.

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

Flash Point: ND

Flammable Limits: ND

Auto-ignition point: ND

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

Special Fire Fighting Procedures: Use self-contained breathing apparatus with full face piece operated in pressure-demand or other positive pressure mode.

Unusual Fire and Explosion Hazards: In finely divided form, this material may react vigorously or ignite when exposed to incompatible materials.

Hazardous combustion products: Metal oxide fume

DOT Class: Not regulated.

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

Steps to be taken in Case Material is Released or Spilled:

Personal Precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil.

Methods and material for containment and cleaning up: Pick up mechanically.

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: Keep container tightly sealed. Store in a cool, dry place in tightly closed containers. Do not store together with acids.

Storage temperature: Room temperature.

Storage Pressure: ND

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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.

### **Personal Protection Equipment**

The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

Respiratory protection: Not normally required. Use suitable respirator when high concentrations are present.

Protective gloves: Impervious gloves not required but recommended.

Skin protection: Protective work clothing.

Eye protection: Safety glasses.

Additional clothing and/or equipment: None.

### **Exposure Guidelines**

See Composition/Information on Ingredients (Section 3)

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## Section 9 Physical and Chemical Properties

Appearance and Physical State: Silver solid in various sizes.

Odor (threshold): ND

Specific Gravity (H<sub>2</sub>O=1): 10.5

Vapor Pressure (mm Hg): NA

Vapor Density (air=1): NA

Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): NA

Boiling Point: 2210 °C (4010 °F)

Freezing point / melting point: 961.8 °C (1763 °F)

pH: NA

Solubility in Water: Insoluble

Molecular Weight: ND

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## Section 10: Stability and Reactivity

Stability: Stable under normal conditions.

Conditions to Avoid: Incompatible materials.

Materials to Avoid (Incompatibility): Acids.

Hazardous Decomposition Products: Heating to elevated temperatures may volatilize silver as fume.

Hazardous Polymerization: Will not occur.

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## Section 11: Toxicological Information

Results of component toxicity test performed:

Acute: LD50 values relevant for classification: ND

Skin irritation or corrosion: Powder: irritant effect.

Eye irritation or corrosion: Powder: irritant effect.

Sensitization: No sensitizing effects known.

Germ cell mutagenicity: No effects known.

Carcinogenicity: ND

Reproductive toxicity: No effects known.

Specific target organ system toxicity: No effects known.

Aspiration hazard: No effects known.

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: Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Avoid transfer to the environment.

Chemical Fate Information: ND

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## Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: None

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**

##### **For Powdered Silver ONLY:**

US DOT Information: Proper shipping name: Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Silver powder 7-15 µm)

Hazard Class: 9

Packaging group: III

UN Number: UN3077

IATA: Proper shipping name: Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Silver powder 7-15 µm)

Hazard Class: 9

Packaging group: III

UN Number: UN3077

Marine Pollutant: No

Canadian TDG: Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Silver powder 7-15 µm)

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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 Section 313: Substance is listed: Silver (7440-22-4)

RCRA: Not listed.

TSCA: All components are listed on the TSCA public inventory.

CERCLA: ND

##### **State Regulations**

California Proposition 65: Substance is not listed.

##### **International Regulations**

Canada WHMIS: ND

Europe EINECS Numbers: 231-131-3

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

Label Information: ND

European Risk and Safety Phrases: ND

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.

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