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)

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

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.

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=Sligh, 2=Moderate, 3=High, 4=Extreme)

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

### Section 3: Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Principle Hazardous Component(s)</th>
<th>%</th>
<th>OSHA PEL mg/m3</th>
<th>ACGIH TLV mg/m3</th>
<th>NTP Carcinogen</th>
<th>IARC Carcinogen</th>
<th>OSHA regulated Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Silver</strong> &lt;br&gt;(7440-22-4) &lt;br&gt;EC-No: 231-131-3</td>
<td>~99.99</td>
<td>0.01</td>
<td>0.1</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

### 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.
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.

Section 6: Accidental Release Measures
Steps to be taken in Case Material is Released or Spilled:
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.

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

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)
**Section 9 Physical and Chemical Properties**
Appearance and Physical State: Silver solid in various sizes.
Odor (threshold): ND
Specific Gravity ($\text{H}_2\text{O}=1$): 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

**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.

**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.

**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

**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: 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: 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:** Environmentally hazardous substances, solid, n.o.s. (Silver powder 7-15 µm)

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**Section 15: Regulatory Information**

**United States Federal Regulations**

- 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
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