Section 1: Product and Company Identification

Product Name: Titanium Products
Synonym: Ti

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.

Section 2: Hazard Identification

2.1 Classification of the substance or mixture
Not classified as a hazardous substance.

GHS Pictograms: NA
GHS Categories: NA

2.2 Label elements
No required label elements.

Hazard Pictograms: NA
Signal Word: NA
Hazard statements: NA
Precautionary statements: NA

2.3 Other hazards
ND

Health Effects:
NFPA Hazard Rating: 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:
PBT: NA
vPvB: NA
Emergency overview
Appearance: Solid silver pellets.
Immediate effects: ND

Potential health effects
Primary Routes of entry: Skin and eye contact. Inhalation of dust.
Signs and Symptoms of Overexposure: ND
Eyes: No irritating effects.
Skin: No irritating effects.
Ingestion: ND
Inhalation: May cause respiratory irritation.
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) (chemical and common name(s)) (Cas. No)</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>Titanium (7440-32-6) EC-No: 231-142-3</td>
<td>≤100</td>
<td>NE</td>
<td>NE</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: Rinse opened eye for several minutes under running water, then consult a doctor.
Skin Contact: Immediately wash with water and soap and rinse thoroughly. Seek medical advice.
Inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.
Ingestion: Seek medical treatment.

Note to physician
Treatment: ND
Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures
Flash Point: ND
Flammable Limits: ND
Auto-ignition point: ND
Fire Extinguishing Media: Special powder for metal fires. Do not use water.
Unusual Fire and Explosion Hazards: ND
Hazardous combustion products: Metal oxide fumes.
DOT Class: Not regulated.

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.

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. Store away from mineral acids.
Storage temperature: Room temperature.
Storage Pressure: ND

Section 8: Exposure Controls / Personal Protection

Engineering Controls
Ventilation required: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Personal Protection Equipment
Respiratory protection: Use suitable respirator when high concentrations are present.
Protective gloves: Impervious gloves.
Skin/body protection: Protective work clothing.
Eye protection: Safety glasses.
Additional clothing and/or equipment: ND

Exposure Guidelines
See Composition/Information on Ingredients (Section 3)

Section 9 Physical and Chemical Properties
Appearance and Physical State: Solid silver pellets.
Odor (threshold): Odorless (NA)
Specific Gravity (H₂O=1): ND
Vapor Pressure (mm Hg): NA
Vapor Density (air=1): NA
Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): NA
Boiling Point: 3277 °C (5931 °F)
Melting point: 1668 °C (3034 °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): Mineral acids.
Hazardous Decomposition Products: Metal oxide fumes.
Hazardous Polymerization: Will not occur.

**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.

**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.

**Section 14: Transportation Information**
US DOT Information: Not regulated.
IATA: Not regulated.
Marine Pollutant: No
Canadian TDG: Not regulated.

**Section 15: Regulatory Information**
United States Federal Regulations
SARA: Substance is not listed.
SARA Title III: Substance is not listed.
RCRA: Not listed.
TSCA: All components are listed on the TSCA public inventory.
CERCLA: Substance is not listed.

State Regulations
California Proposition 65: Substance is not listed.

International Regulations
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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