Section 1: Product and Company Identification
Product Name: PELCO® High Performance Silver Paste, 50g
Synonym:
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

GHS Categories
GHS07: Irritant
   Eye Irritation Category 2A
   Skin Irritation Category 2

Signal Word:  WARNING

GHS Hazard Determining Components
Silicate Solution
Silver

Hazard Statements
H303  Harmful if swallowed.
H315  Causes skin irritation.
H319  Causes serious eye irritation.

Precautionary Statements
P264  Wash hands thoroughly after handling.
P280  Wear protective gloves. Wear eye protection.
P302 + P352  IF ON SKIN: Wash with plenty of soap and water.
P332 + P313  If skin irritation occurs: Get medical advice/attention.
P305 + P351 + P338  IF IN EYES: Remove contact lenses, if present and easy to do. Rinse cautiously with water for several minutes.
P312  IF SWALLOWED: Call a poison center or doctor if you feel unwell.
P362  Take off contaminated clothing and wash before reuse.
2.3 Other Hazards

Health Effects:
NFPA Hazard Rating: Health: 1; Fire: ND; Reactivity: ND
HMIS® Hazard Rating: Health: 1; Fire: ND; Reactivity: ND
(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 Paste
Immediate effects: ND

Potential health effects
Primary Routes of entry: Skin and eye contact, ingestion.
Signs and Symptoms of Overexposure: Irritation.
Eyes: Causes serious eye irritation.
Skin: Causes skin irritation.
Ingestion: Harmful if swallowed.
Inhalation: ND
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>Silicate Solution (1344-09-8) EC No: 215-687-4 H302 Acute Toxicity, Oral, Cat 4 H315 Skin Corrosion/Irritation, Cat 2 H319 Eye Damage/Eye Irritation, Cat 2A H335 STOT, SE; Respiratory Tract Irritation, Cat 3</td>
<td>10-20</td>
<td>NE</td>
<td>NE</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Silver Flake (7440-22-4) EC No. 231-131-3</td>
<td>55-75</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: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist.

Skin Contact: Immediately wipe excess material off skin with a dry cloth then wash with soap and water for at least 5 minutes.

Inhalation: In case of inhalation due to spray mist, machining dust or dried particulate, remove source of exposure and assure that victim is breathing. If not breathing, administer cardio-pulmonary resuscitation (CPR).

Ingestion: If swallowed, do not induce vomiting. If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention immediately.

**Note to physician**

Treatment: ND

Medical Conditions generally Aggravated by Exposure: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

**Section 5: Fire Fighting Measures**

Flash Point: NA

Flammable Limits: This material is non-combustible.

Auto-ignition point:

Fire Extinguishing Media: This material is compatible with all extinguishing media.

Special Fire Fighting Procedures: Firefighters should wear NIOSH/MSHA approved positive pressure breathing apparatus with full face-piece and full chemical resistant protective clothing. Dike area to prevent runoff and contamination of water sources.

Dispose of fire control water later.

Unusual Fire and Explosion Hazards: This material is non-combustible.

Hazardous combustion products:

DOT Class: Not regulated.

**Section 6: Accidental Release Measures**

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

Personal Protection: Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots. Use NIOSH approved respirator where mist occurs.

Spill Cleanup: Mop up and neutralize liquid, then discharge to sewer in accordance with federal, state and local regulations or permits. Flush area with water to complete cleanup. Exercise caution during neutralization as heat may be generated.

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:

Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Keep container closed. Promptly clean residue from closures with cloth dampened with water. Promptly clean up spills. Store in an area that is cool, dry, well ventilated, away from combustible material, and away from ignition sources. Keep containers closed.

Store in clean plastic or stainless steel containers.

Storage temperature: Room temperature.

Storage Pressure: ND
Section 8: Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>TLV (mg/m³)</th>
<th>PEL (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicate Solution</td>
<td>1344-09-8</td>
<td>2115-687-4</td>
<td>ND</td>
<td>ND</td>
</tr>
<tr>
<td>Silver Flake</td>
<td>7440-22-4</td>
<td>231-131-3</td>
<td>0.1</td>
<td>0.01</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>NA</td>
<td>ND</td>
<td>ND</td>
</tr>
</tbody>
</table>

**Engineering Controls**
Ventilation required: Use with adequate ventilation. Keep containers closed. Safety shower and eyewash fountain should be within direct access.

**Personal Protection Equipment**
Respiratory protection: This product is not considered respirable in either the liquid or cured forms. However, if the cured product is polished, ground or chipped during processing, handling or use, powders may be released as airborne respirable particles. In these instances, appropriate personal protection equipment and local ventilation controls must be employed. If exposure limits are exceeded and local ventilation is unavailable, a supplied-air respirator or a self-contained NIOSH-approved dust and mist respirator is required.
Protective gloves: Wear protective gloves.
Skin protection: Wear body-covering protective clothing.
Eye protection: Wear chemical goggles.
Additional clothing and/or equipment: ND

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

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**Section 9 Physical and Chemical Properties**
Appearance and Physical State: Silver paste.
Odor (threshold): Odorless (ND)
Specific Gravity (H₂O=1): 2.20-2.30
Vapor Pressure (mm Hg): NA
Vapor Density (air=1): ND
Percent Volatile by volume: ND
Viscosity: Paste
Evaporation Rate (butyl acetate=1): NA
Boiling Point: 100° C
Freezing point / melting point: ND
pH: 11.0-11.5
Solubility in Water: Soluble
Molecular Weight: ND

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**Section 10: Stability and Reactivity**
Stability: This material is stable under all conditions of use and storage.
Conditions to Avoid: Prolonged contact with aluminum, brass, copper, lead, and zinc may produce flammable hydrogen gas.
Materials to Avoid (Incompatibility): Gels and heats when mixed with acid. May react with ammonium salts resulting in evolution of ammonia gas.
Hazardous Decomposition Products: None.
Hazardous Polymerization: Will not occur.

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**Section 11: Toxicological Information**
Results of component toxicity test performed:
Acute Toxicity: Component: CAS No. 1344-09-8, Silicate Solution
   LD₅₀ Oral, 1153 mg/kg (Rat)
   LD₅₀, Inhalation, No Data
Section 12: Ecological Information
Ecological Information:
Eco toxicity: This material is believed to be practically non-toxic to aquatic life.
Biodegradation: This material is inorganic and not subject to biodegradation.
Persistence: This material is believed to persist in the environment.
Bio concentration: This material is not expected to bio concentrate in organisms.
Physical/Chemical: Sinks and mixes with water. Only water will evaporate from this material.
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: Proper shipping name: Not regulated.
IATA: Proper shipping name: Not regulated.
Marine Pollutant: No
Canadian TDG: Not regulated.

Section 15: Regulatory Information
United States Federal Regulations
SARA: Sections 311, 312:
Hazard Classes Yes/No:
Fire Hazard: No
Reactivity Hazard: No
Pressure Hazard: No
Immediate Hazard: Yes
Delayed Hazard: No
SARA Title III: Sections 302, 304, 313: This product does not contain any substances reportable under these sections.
RCRA: None of the ingredients are listed.
TSCA: All components are listed on the TSCA public inventory.
CERCLA: None of the ingredients are listed.

State Regulations
California Proposition 65: None of the ingredients are listed.

International Regulations
International Inventory Status
Canada (DSL) Yes
Europe (EINECS/ELINCS) Yes
Australia (AICS) Yes
Japan (MITI) Yes
South Korea (KECL) Yes

Canada WHMIS: ND
Europe EINECS Numbers: See Section 3.

Section 16: Other Information
Label Information: See Section 2
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

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.

SDS Form 0013F1V4