Section 1: Product and Company Identification
Product Name: PELCO® High Temperature Carbon Paste
Synonym: None
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
2.1 Classification of the substance or mixture

GHS Pictograms

GHS07

GHS Categories
GHS07 – Irritant
   Eye Irrit. 2A: H319
   Skin Irrit. 2: H315

2.2 Label elements

Hazard pictograms

GHS07

Signal Word: Warning

GHS Hazard Determining Components
Silicate Solution
Graphite

Hazard statements:
H303  Harmful if swallowed.
H315  Causes skin 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.
P301+P312 IF SWALLOWED: Call a poison center or doctor if you feel unwell.
P362 Take off contaminated clothing and wash before reuse.
P501 Dispose in accordance with local, regional, national or international regulations

2.3 Other hazards

Health Hazards:
HMIS® Hazard Rating: Health: 1; Fire: 0; Reactivity: 0 Personal Protection: C
NFPA Hazard Rating: Health: 1; Fire: 0; Reactivity: 0
(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Results of PBT and vPvB assessment:
PBT: NIF
vPvB: NIF

Emergency overview
Appearance: Black, odorless, paste.
Immediate effects: May cause moderate irritation to eyes, skin, and digestive tract.

Potential health effects
Primary Routes of entry: Ingestion, Skin and eye contact. Mist inhalation.
Signs and Symptoms of Overexposure: NIF
Eyes: May cause moderate irritation to the eyes.
Skin: May cause moderate irritation to the skin.
Ingestion: May cause irritation to mouth, esophagus, and stomach.
Inhalation: Mists may cause irritation to upper respiratory track.
Chronic Exposure: No known chronic hazards.
Chemical Listed As Carcinogen Or Potential Carcinogen: Not listed on NTP, IARC or OSHA as carcinogen. 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</th>
<th>IARC</th>
<th>OSHA regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicate Solution (1344-09-8) EC No. 215-687-4 H302: Acute Toxicity 4, oral H315: Skin Corrosion/Irritation 2 H319: Eye Damage/Irritation 2A H335: STOT SE, Respiratory Tract Irritation 3</td>
<td>20-30%</td>
<td>NE</td>
<td>NE</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>
Graphite (7782-42-5)  
EC No. 231-955-3  
H319: Eye Damage/Irritation 2A  
H335: STOT SE, Respiratory Tract Irritation 3

<table>
<thead>
<tr>
<th></th>
<th>25-35%</th>
<th>2</th>
<th>2</th>
<th>No</th>
<th>No</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water (7732-18-5)</td>
<td>40-50%</td>
<td>NE</td>
<td>NE</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Notes:
1) This product is a liquid mixture and all powders are encapsulated.
2) Exposure values shown for guidance only. Please follow applicable regulations.

**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: NIF

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

**Section 5: Fire Fighting Measures**

- **Flash Point:** Not applicable.
- **Flammable Limits:** This material is non-combustible.
- **Auto-ignition point:** Not applicable.
- **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/Explosion Hazards:** This material is non-combustible.
- **Hazardous combustion products:** This material is non-combustible.
- **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:

Handling: 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.

Storage: Store in an area that is cool, dry, well ventilated. Keep containers closed. Store in clean plastic or stainless steel containers.

Storage temperature: Store in an area that is cool.

Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection

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 and gloves.
Eye protection: Wear chemical goggles.

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

Section 9 Physical and Chemical Properties
Appearance and Physical State: Viscous black paste.
Odor (threshold): Odorless
Specific Gravity (H₂O=1): 1.42-1.50
Vapor Pressure (mm Hg): ND
Vapor Density (air=1): ND
Percent Volatile by volume: ND
VOC Content, lbs/gal: 0.00

Evaporation Rate (butyl acetate=1): NA
Boiling Point: 100ºC
Freezing point / melting point: NA
pH: 11.0-11.5
Solubility in Water: Soluble
Molecular Weight: NA

Section 10: Stability and Reactivity
Stability: This material is stable under all conditions of use and storage.
Conditions to Avoid: High heat. Keep the cap tight on container.
Materials to Avoid (Incompatibility): Gels and generates heat when mixed with acid. May react with ammonium salts resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead, and zinc.
Hazardous Decomposition Products: None.
Hazardous Polymerization: Will not occur.

**Section 11: Toxicological Information**

**Acute Toxicity:**
- Component: CAS No. 1344-09-8, Silicate Solution
- LD50 Oral, 1153 mg/kg (Rat)
- LD50, Inhalation, ND
- LD50, Dermal, 4640 mg/kg (Rabbit)

**Skin Corrosion/Irritation:** Irritating to skin

**Serious Eye Damage/Irritation:** Irritating to eyes

**Sensitization:** Not sensitizing

**Mutagenicity:** ND

**Carcinogenicity:** This product is not listed by IARC, NTP, OSHA, or ACGIH as a known or suspected carcinogen.

**Reproductive Toxicity:** ND

This product does not contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

**Section 12: Ecological Information**

**Ecotoxicity:** This material is believed to be practically non-toxic to aquatic life.

**Environmental Fate:** This material is inorganic and not subject to biodegradation. This material is believed to persist in the environment.

**Bioconcentration:** This material is not expected to bioconcentrate in organisms.

**Ecological Information:** 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**

The material is not a regulated hazardous material for transportation.

**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**
  - 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

**TSCA:** All ingredients of this material are listed on the TSCA inventory.

**CERCLA:** No reportable quantity has been established for this material.
**State Regulations**
California Proposition 65: NA

**International Regulations**

<table>
<thead>
<tr>
<th>International Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe (EINECS/ELINCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Australia (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Japan (MITI)</td>
<td>Yes</td>
</tr>
<tr>
<td>South Korea (KECL)</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Canada WHMIS: ND
Europe EINECS Numbers: ND

---

**Section 16: Other Information**

Label Information:
- 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.