Section 1: Product and Company Identification
Product Name: PELCO® High Temperature Carbon Paste
Product Use: High Temperature Graphite Adhesive
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 Pictogram

<table>
<thead>
<tr>
<th>GHS Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHS07 – Irritant</td>
</tr>
<tr>
<td>Eye Irrit. 2A: H319</td>
</tr>
<tr>
<td>Skin Irrit. 2: H315</td>
</tr>
</tbody>
</table>

2.2 Label Elements
GHS Pictogram

| GHS07                          |

Signal Word: Warning

GHS Hazard Determining Components
Silicate Solution
Graphite

Hazard statements:
H303 May be harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements:
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face 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: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
2.3 Other Hazards

Health Hazards:

<table>
<thead>
<tr>
<th>NFPA Rating</th>
<th>HMIS® Hazard Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health: 1</td>
<td>Health: 1</td>
</tr>
<tr>
<td>Flammability: 0</td>
<td>Flammability: 0</td>
</tr>
<tr>
<td>Instability: 0</td>
<td>Reactivity: 0</td>
</tr>
<tr>
<td>Special Notice: C (personal protection)</td>
<td>Personal Protection: C</td>
</tr>
</tbody>
</table>

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

Section 3: Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Principle Hazardous Component(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>
<th>GHS Product Identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicate Solution (1344-09-8) EC No. 215-687-4</td>
<td>20-30%</td>
<td>NE</td>
<td>NE</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>H302: Acute Toxicity 4, oral H315: Skin Corrosion/Irritation 2 H319: Eye Damage/Irritation 2A H335: STOT SE, Respiratory Tract Irritation 3</td>
</tr>
<tr>
<td>Graphite (7782-42-5) EC No. 231-955-3</td>
<td>25-35%</td>
<td>2</td>
<td>2</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>H319: Eye Damage/Irritation 2A H335: STOT SE, Respiratory Tract Irritation 3</td>
</tr>
<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>
<td></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 away from combustible material, and away from ignition sources. Keep containers closed. Store in clean plastic or stainless steel container.

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: Odorless
Odor Threshold: No available information.
Specific Gravity (H₂O=1): 1.40-1.50
Vapor Pressure (mm Hg): NA
Vapor Density (air=1): ND
Percent Volatile by volume: ND
VOC Content: 0.00 lbs/gal
Viscosity: Thick Paste
Evaporation Rate (butyl acetate=1): NA
Boiling Point: 100°C
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: Prolonged contact with aluminum, brass, copper, lead, and zinc may produce flammable hydrogen gas.
Materials to Avoid (Incompatibility): Gels and generates heat when mixed with acid. May react with ammonium salts resulting in evolution of ammonia gas.
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.
Biodegradation: This material is inorganic and not subject to biodegradation.
Persistence: This material is believed to persist in the environment.
Bioconcentration: This material is not expected to bioconcentrate in organisms.
Physical/Chemical: Sinks and mixes with water. Only water will evaporate from this material.
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>
<tr>
<td>Canada WHMIS:</td>
<td>ND</td>
</tr>
<tr>
<td>Europe EINECS Numbers</td>
<td>ND</td>
</tr>
</tbody>
</table>

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.

SDS Form 0013F1 V3