

Safety Data Sheet

Product No. 16057 PELCO® High Temperature Carbon Paste

Issue Date (06-01-15)

Review Date (09-02-2021)

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



GHS07

GHS Categories

GHS07 – Irritant

Eye Irrit. 2A: H319

Skin Irrit. 2: H315

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.

P301+P312 IF SWALLOWED: Call a poison center or doctor if you feel unwell.
P362 Take off contaminated clothing and wash before reuse.
P363 Wash contaminated clothing before reuse.
P501 Dispose in accordance with local, regional, national or international regulations.

2.3 Other Hazards

Health Hazards:

NFPA Rating

Health: 1
Flammability: 0
Instability: 0
Special Notice: C (personal protection)

HMIS® Hazard Rating

Health: 1
Flammability: 0
Reactivity: 0
Personal Protection: C

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

Section 3: Composition / Information on Ingredients

Principle Hazardous Component(s) (CAS No.)	%	OSHA PEL mg/m3	ACGIH TLV mg/m3	NTP	IARC	OSHA Regulated	GHS Product Identifier
Silicate Solution (1344-09-8) EC No. 215-687-4	20-30%	NE	NE	No	No	No	H302: Acute Toxicity 4, oral H315: Skin Corrosion/Irritation 2 H319: Eye Damage/Irritation 2A H335: STOT SE, Respiratory Tract Irritation 3
Graphite (7782-42-5) EC No. 231-955-3	25-35%	2	2	No	No	No	H319: Eye Damage/Irritation 2A H335: STOT SE, Respiratory Tract Irritation 3
Water (7732-18-5)	40-50%	NE	NE	No	No	No	

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 chronic 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

SDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.

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

<u>International Inventory</u>	<u>Status</u>
Canada (DSL)	Yes
Europe (EINECS/ELINCS)	Yes
Australia (AICS)	Yes
Japan (MITI)	Yes
South Korea (KECL)	Yes
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.