

## Safety Data Sheet

**Product No. 16026, 16026-10 PELCO® High Performance Ceramic Adhesive**

**Issue Date (06-01-15)**

**Review Date (08-31-17)**

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### Section 1: Product and Company Identification

**Product Name: PELCO® High Performance Ceramic Adhesive**

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**

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### Section 2: Hazard Identification

#### 2.1 Classification of the substance or mixture

#### GHS Pictograms



GHS07

#### GHS Categories

GHS07 – Irritant

Eye Irrit. 2A

H319: Causes serious eye irritation.

Skin Irrit. 2

H315: Causes skin irritation

#### 2.2 Label elements

#### Hazard pictogram



GHS07

**Signal Word:** Warning

#### GHS Hazard Determining Components

Silicate Solution

Aluminum Oxide

#### 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.
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 Effects:**

NFPA Hazard Rating: Health: 1; Fire: 0; Reactivity: 0

HMIS® 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: ND

vPvB: ND

**Emergency overview**

Appearance: White, odorless, paste

Immediate effects: May cause moderate irritation to eyes, skin and digestive tract.

**Potential health effects**

Primary Routes of entry: Ingestion, skin absorption.

Signs and Symptoms of Overexposure: ND

Eyes: May cause moderate irritation to eyes.

Skin: May cause moderate irritation to skin.

Ingestion: May cause irritation to mouth, esophagus and stomach.

Inhalation: Mist may cause irritation to respiratory tract.

Chronic Exposure: None known

Chemical Listed As Carcinogen Or Potential Carcinogen: None

See Toxicological Information (Section 11)

**Potential environmental effects**

See Ecological Information (Section 12)

**Section 3: Composition / Information on Ingredients**

Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL mg/m <sup>3</sup>	ACGIH TLV mg/m <sup>3</sup>	NTP Carcinogen	IARC Carcinogen	OSHA regulated Carcinogen
Aluminum oxide (1344-28-1) EC No. 215-691-6	40-60%	15	10	No	No	No
Silicate solution (1312-76-1) EC No. 215-687-4 H302: Acute Toxicity 4, oral H315: Skin Corrosion/Irritation 2 H319: Eye Damage/Eye Irritation 2A	20-30%	NE	NE	No	No	No

H335: STOT SE, Respiratory Tract Irritation 3						
Water (7732-18-5)	20-30%	NE	NE	No	No	No

- 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.
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).

##### Note to physician

Treatment: ND

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: NA

Flammable Limits: This material is non-combustible.

Auto-ignition point: NA

Fire Extinguishing Media: This material is compatible with all fire-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: NA

DOT Class: None

#### 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 containers.
Storage temperature:	Room temperature.
Storage Pressure:	NA

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## Section 8: Exposure Controls / Personal Protection

### Engineering Controls

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 breathable 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 particles that could be inhaled. 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 body-covering protective gloves.
Skin protection	Wear protective clothing.
Eye protection	Wear chemical goggles.

### Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

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## Section 9 Physical and Chemical Properties

Appearance and Physical State: Viscous white paste

Odor (threshold): Odorless (ND)

Specific Gravity (H<sub>2</sub>O=1): 2.30

Vapor Pressure (mm Hg): NA

Vapor Density (air=1): ND

Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): NA

Boiling Point: 100°C

Freezing point / melting point: NA

pH: 11.0-11.5

Solubility in Water: Soluble

VOC Content: 0.00 lbs/gal

Molecular Weight: NA

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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**

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

#### **Human experience**

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: No data

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

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### **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.

Chemical Fate Information: Sinks and mixes with water. Only water will evaporate from this material.

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### **Section 13 Disposal Considerations**

RCRA 40 CFR 261 Classification: ND

Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

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### **Section 14: Transportation Information**

US DOT Information: Proper shipping name: Not regulated

IATA: Proper shipping name: Not regulated

IMO: Proper shipping name: Not regulated

Marine Pollutant: No

Canadian TDG: Not regulated

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### **Section 15: Regulatory Information**

#### **United States Federal Regulations**

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

SARA 311/312:

Fire Hazard – No

Reactivity Hazard – No

Pressure Hazard – No

Immediate Hazard – Yes

Delayed Hazard – No

SARA Title III (302, 304): This product does not contain any reportable substances.

RCRA: NIF

TSCA: All ingredients are listed.

CERCLA: No reportable quantity has been established for this material.

#### **State Regulations**

California Proposition 65: No substances are listed.

### **International Regulations**

Canada (DSL): Yes

Europe (EINECS/ELINCS): Yes

Australia (AICS): Yes

Japan (MITI): Yes

South Korea (KECL): Yes

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### **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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### **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.