TED PELLA, INC.
Microscopy Products for Science and Industry

Safety Data Sheet
Product No. 813-400 Pelco® Conducto-mount, black, Graphite Mounting Powder
Issue Date (02-12-15)
Review Date (08-31-17)

Section 1: Product and Company Identification

Product Name: Pelco® Conducto-mount, black, Graphite Mounting Powder
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

Acute toxicity, oral (Category 4)	H302: Harmful if swallowed.
Acute toxicity, inhalation (Category 4)	H332: Causes serious eye irritation.
Eye irritation (Category 2A)	H319: Harmful if inhaled.

2.2 Label elements

Hazard pictograms

GHS07

Signal Word: Warning

Hazard Statements
H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.

Precautionary Statements

P261	Avoid breathing dust/fumes/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.

P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312+P330	IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P337+P313	IF eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container according to local/regional/state/federal regulations.

2.3 Other hazards

Health Effects:
NFPA Hazard Rating: Health: 2; Fire: 1; Reactivity: 0
HMIS® Hazard Rating: Health: 2; Fire: 1; Reactivity: 0
(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

Phenol	Highly Toxic - Poisoning may occur via skin absorption, vapor inhalation, or ingestion. Inhalation of the vapors may cause severe irritation to the nose, throat, and respiratory tract. May cause liver, kidney and heart damage.
Formaldehyde	Irritant to Eyes, Lungs, and Skin. Has been shown to cause cancer in laboratory animals. Listed as an IARC carcinogen. California law requires the following Statement be included: contains a chemical (formaldehyde) know to the state of California to cause cancer. National cancer institute study finds little evidence to connect formaldehyde exposure with cancer in humans.
Ammonia	Irritant to eyes, mucous membranes and respiratory tract.

POSSIBLE RESPRIABLE DUST COMPONENTS (UP TO 8% MAY GO THRU 100 MESH):

Coal dust	Irritant to eyes, nose and throat. Can cause respiratory effect such as pneumoconiosis, bronchitis, emphysema and progressive massive fibrosis, with long exposure.
Fibrous glass	Mechanical irritant to eyes, nose and skin. Can cause irritation and inflammation of the nasopharyngeal region and upper respiratory tract.
Graphite	Irritant to eyes and respiratory tracts. Can cause pneumoconiosis, although studies suggest that pneumoconiosis is a mixed dust reaction.
Mica	Irritant to eyes. OSHA believes that the evidence strongly suggests that it is a pneumoconiosis causing agent.
Mineral wool fiber	Irritant to eyes and skin. Several studies have shown excess risk of nonmalignant respiratory disease.
Talc	Irritant to eyes, mucous membranes and respiratory tracts. Medical evidence is complicated by the fact that talc(s) contain amphiboles and other minerals.
Wood flour (soft)	Irritant to eyes, mucous membranes and upper respiratory tracts. Various species of wood dust can elicit allergic contact dermatitis in sensitized individuals. May cause respiratory sensitization.

Emergency overview:
Appearance: Granular, nodular, pellet or briquette with slight odor of phenol.
Immediate effects: Irritation.

Potential health effects
Primary Routes of entry: Skin and eye contact, inhalation and ingestion.
Signs and Symptoms of Overexposure: Eyes, skin, nose, throat, and respiratory irritation.
Chronic Exposure: May cause liver, kidney and heart damage. Can cause respiratory effect such as pneumoconiosis, bronchitis, emphysema and progressive massive fibrosis, with long exposure.
Chemical Listed As Carcinogen Or Potential Carcinogen: Yes
See Toxicological Information (Section11)

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**	**ACGIH TLV**	**NTP** Carcinogen	**IARC** Carcinogen	**OSHA regulated** Carcinogen
Phenol (108-95-2)	<2.5	TWA/SKIN 5 ppm	TWA/SKIN 5ppm	No	3	No
Graphite, synthetic (7782-42-5)	10-40	ND	TLV (respirable dust) 2 mg/m^3	No	No	No
Carbon black (1333-86-4)	<5	TWA 3.5 mg/m^3	TWA 3.5 mg/m^3	No	2B	No
Coal dust	<8	TWA <5% SIO2 2.4 mg/m^3 %SIO2 + 2 TWA >5% SIO2 10 mg/m^3 % SIO2 +2	TWA 2 mg/m^3	No	No	No
Graphite (7782-42-5)	<20	TWA 15 MPPCF	TWA 2 mg/m^3	No	No	No
Mica (12001-26-2)	<30	TWA 20 MPPCF	TWA 3 mg/m^3	No	No	No
Talc (14307-96-6)	<10	TWA 20 MPPCF	TWA 2 mg/m^3	No	No	No
Particles not otherwise classified (PNOC)	<35	TWA/TOTAL 15 mg/m^3 TWA/RESPIR 5 mg/m^3	TWA/INHAL 10 mg/m^3 TWA/RESPIR 3 mg/m^3	No	No	No

MPPCF: Million particles per cubic foot

Section 4: First Aid Measures

If accidental overexposure is suspected

Eye(s) Contact: Immediately flush eyes with copious amounts of water for at least 15 minutes. Get medical attention.

Skin contact: Wash thoroughly with soap and water.

Inhalation:	Use with adequate ventilation. If breathing is affected, remove to fresh air. If breathing stops, apply mouth to mouth resuscitation. Get medical attention.
Ingestion:	If conscious, give water immediately and induce vomiting by placing finger down throat. Never give anything by mouth to an unconscious person. Get medical attention.

Note to physician
Treatment: ND
Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures
Flash Point: ND
Flammable Limits: ND
Auto-ignition point: ND
Fire Extinguishing Media: Water spray, foam, dry chemical, carbon dioxide
Special Fire Fighting Procedures: MSHA/NIOSH approved self-contained breathing apparatus recommended. Avoid inhalation of gases.
Unusual Fire and Explosion Hazards: Organic dust/air mixtures are highly flammable (explosive); avoid dust accumulations or dust-laden atmospheres and sources of ignition.
Hazardous combustion products: ND
DOT Class: Not regulated.

Section 6: Accidental Release Measures
Steps to be taken in Case Material is Released or Spilled: Vacuum or sweep with sweeping compound, sawdust or sand. Avoid generating dust. Vacuums with explosion proof motors are recommended. This product contains free phenol which is subject to effluent limits under the clean water act.
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 breathing fumes from molding or other processes involving heat. Avoid breathing dusts from cutting, machining or de-flashing operations. Guard against dust accumulation of this material. High concentrations or airborne dust may form explosive mixture with air. As with all chemicals, good industrial hygiene practices should be followed when handling this material.
Storage:	Store in a cool, dry place. Keep containers closed to avoid contamination. Prevent accumulations of dust. Avoid excessive heat and sources of ignition.
Storage temperature:	Storage temperatures not to exceed 100° F.
Storage Pressure:	NA

Section 8: Exposure Controls / Personal Protection
Engineering Controls

Ventilation required:	Point source exhaust recommended to remove dust and vapors evolved during use (dust collection system). Use explosion proof motors.

Personal Protection Equipment

Respiratory protection:	NIOSH approved respirators recommended if TLVs are exceeded.
Protective gloves:	Gloves recommended.
Skin protection:	Appropriate protective work clothing.
Eye protection:	Safety glasses with side shields.

Additional clothing and/or equipment: Eye wash and shower facility should be available.
Exposure Guidelines
See Composition/Information on Ingredients (Section 3)

Section 9 Physical and Chemical Properties
Appearance and Physical State: Black Granular, nodular, pellet or briquette.
Odor (threshold): Phenol (ND)
Specific Gravity (H_2O=1): ND
Vapor Pressure (mm Hg): ND
Vapor Density (air=1): ND
Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): ND
Boiling Point: ND
Freezing point / melting point: ND
pH: ND
Solubility in Water: Negligible
Molecular Weight: NA

Section 10: Stability and Reactivity
Stability: Stable under recommended storage conditions.
Conditions to Avoid: Avoid contamination, exposure to flame or heat or storage temperatures in excess of 100° F.
Materials to Avoid (Incompatibility): Like most organic materials, this product is sensitive to strong oxidizing agents and may either decompose or ignite when mixed with the same.
Hazardous Decomposition Products: Vapors evolved during polymerization may contain phenol, formaldehyde, or ammonia.
Hazardous Polymerization: Should not occur.

Section 11: Toxicological Information
Results of component toxicity test performed: ND
Human experience: literature - Phenol is toxic with a probable oral lethal dose to humans of 50-500 mg/kg. Some individuals may be hypersensitive with lethality or serious effects at very low exposures. Rapid absorption and severe systemic toxicity can occur after any route of exposure including skin. Death and severe toxicity are usually due to effects on the CNS, heart, blood vessels, lung, and kidneys. However, toxic manifestations may vary somewhat with the route.
This product **does not** contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

Section 12: Ecological Information
Ecological Information: ND
Chemical Fate Information: ND

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.

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

SDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.
SARA: 311/312 hazard categories: Release of phenol and carbon black may require reporting depending on the amount released.
SARA Title III: Release of phenol above TPQ level requires reporting
RCRA: ND
TSCA: All ingredients are TSCA listed.
CERCLA: Release of Phenol above the RQ level requires reporting. Contains <2.5% Phenol (108-95-2). RQ = 1000 lbs (454 Kg).

State Regulations

California Proposition 65: Warning: This product contains the following chemicals that are known to the state of California to cause cancer. Carbon Black (1333-86-4).

International Regulations

Canada WHMIS: ND
Europe EINECS Numbers: ND

Section 16: Other Information

Label Information: Irritant
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

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