TED PELLA, INC.
Microscopy Products for Science and Industry

Material Safety Data Sheet

Product No. 813-400 Pelco® Conducto-mount, black, Graphite Mounting Powder
Issue Date (08-22-09)
Review Date (04-12-12)

Section 1: Product and Company Identification

Product Name: Pelco® Conducto-mount, black, Graphite Mounting Powder
Synonym: Phenol-Formaldehyde Polymeric Molding Compound and Graphite
Company Name
Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477
Domestic Phone (800) 237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)
International Phone (01) (530) 243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)
Chemtrec Emergency Number 1-800-424-9300 24 hrs a day.

Section 2: Composition / Information on Ingredients

Principle Hazardous Component(s) (chemical and common name(s)) **(Cas. No)**	**%**	**OSHA PEL mg/m3**	**ACGIH TLV mg/m3**	**NTP**	**IARC**	**OSHA regulated**
Phenol (108-95-2)	<2.5	5PPM TWA/SKIN	5 PPM TWA/SKIN	No	3	No
Graphite, Synthetic (7782-42-5)	10-40	ND	2	No	No	No
Carbon Black (1333-86-4)	<5	3.5	3.5	No	2B	No
Coal Dust**	<8	ND	2	No	No	No
Graphite (7782-42-5)	<20	15 MPPCF	2	No	No	No
Mica (12001-26-2)	<30	20 MPPCF	3	No	No	No
Talc (14307-96-6)	<10	20 MPPCF	2	No	No	No
Particulates Not Otherwise Classified (PNOC)	<35	5/Respir 15/Total	10/Inhal 3/Respir	No	No	No

**OSHA-TWA <5% SIO2 2.4 mg/m3 %SIO2 + 2
**OSHA-TWA >5% SIO2 10 mg/m3 % SIO2 +2
MPPCF: Million particles per cubic foot

Section 3: Hazard Identification

Emergency overview
Appearance: Black granular solid.

Immediate effects: Ordinary use of this product is unlikely to produce significant exposure to hazardous chemicals. During polymerization or decomposition small amounts of gaseous ammonia, phenol and formaldehyde, water vapor, carbon monoxide and carbon dioxide are evolved. Breathing of the fumes can be harmful. Grinding or machining of cured molded material may create a dust that poses a respiratory hazard if inhaled and may release small amounts of gaseous ammonia.

Potential health effects

Primary Routes of entry: Inhalation (dust), ingestion, skin absorption.

Signs and Symptoms of Overexposure: Phenol is highly toxic, poisoning may occur from vapor inhalation. Other components may cause irritation, pneumoconiosis, bronchitis, emphysema, progressive fibrosis, inflammation of the nasopharyngeal region and upper respiratory tract, and respiratory sensitization.

Eyes: Irritant to eyes.

Skin: Irritant to skin. Phenol is highly toxic, poisoning may occur from skin absorption.

Ingestion: Phenol is highly toxic, poisoning may occur from ingestion.

Inhalation: Phenol is highly toxic, poisoning may occur from vapor inhalation. Other components may cause irritation, pneumoconiosis, bronchitis, emphysema, progressive fibrosis, inflammation of the nasopharyngeal region and upper respiratory tract, and respiratory sensitization.

Chronic Exposure: Phenol is highly toxic, poisoning may occur from vapor inhalation. Other components may cause irritation, pneumoconiosis, bronchitis, emphysema, progressive fibrosis, inflammation of the nasopharyngeal region and upper respiratory tract, and respiratory sensitization.

Chemical Listed As Carcinogen Or Potential Carcinogen: Carbon Black.

See Toxicological Information (Section11)

Potential environmental effects

See Ecological Information (Section 12)

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: carbon oxides, nitrogen oxides, smoke.
DOT Class: Not regulated.

Section 6: Accidental Release Measures
Steps to be Taken in Case Material is Released or Spilled: Vacuum (explosion proof motors are recommended) or sweep avoiding generating dust. 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: 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. Keep containers closed to avoid contamination. Prevent accumulations of dust. Avoid excessive heat and sources of Ignition. Observe good housekeeping practices.
Storage temperature: Store in a cool, dry place.
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 TLV's are exceeded.
Protective gloves: Gloves recommended.
Skin protection: Protective clothing recommended.
Eye protection: Safety glasses with side shields.
Additional clothing and/or equipment: eye wash and shower facility should be Available.
Practice good hygiene and maintain a Clean work environment
Exposure Guidelines
See Composition/Information on Ingredients (Section2)

Section 9 Physical and Chemical Properties
Appearance and Physical State: Black granular solid.
Odor (threshold): Slight phenol
Specific Gravity (H_2O=1): NA

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, Avoid contamination, exposure to flame or heat, or storage temperatures in excess of 100º F.
Conditions to Avoid: Heat.
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: ND
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.
IMO: Proper shipping name: Not regulated.
Marine Pollutant: No.
Canadian TDG: Not regulated.

Section 15: Regulatory Information
United States Federal Regulations

MSDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.
SARA: Release of Phenol above the TPQ level requires reporting.
SARA Title III: Section 311/312, Release of Phenol and Carbon Black may require reporting at levels 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: ND
European Risk and Safety Phrases: ND
European symbols needed: ND
Canadian WHMIS Symbols: ND
HMIS® Hazard Rating: Health: **2**; Flammability: **1**; Reactivity: **0**
(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

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.