



### Safety Data Sheet

Product No. 16053, 16053-20, 16053-SPC PELCO® Colloidal Graphite

Issue Date (09-09-14)

Review Date (09-25-15)

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#### Section 1: Product and Company Identification

Product Name: PELCO® Colloidal Graphite

Synonym: Dag 154

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.

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#### Section 2: Hazard Identification

##### 2.1 Classification of the substance or mixture

GHS Pictograms



##### GHS Categories

GHS02 – Flammable

Flam. Liq. 2

H225: Highly flammable liquid and vapor

GHS05 – Corrosion

GHS07 – Irritant

Skin Irrit. 2

H315: Causes skin irritation

Skin Sens. 1

H317: May cause an allergic skin reaction

STOT SE 3

H335: May cause respiratory irritation

GHS08 – Health Hazard

Serious eye dmg. 1

H318: Causes serious eye damage

STOT SE 3

H336: May cause drowsiness or dizziness

STOT RE 1

H372: Causes damage to organs through repeated or prolonged exposure

Aspiration 1

H304: May be fatal if swallowed and enters airways

##### 2.2 Label elements

Hazard pictograms

|      |  |
|------|--|
| P235 | Keep cool.   |
| P405 | Store locked up.   |
| P501 | Dispose of contents and/or container in accordance with local/regional/national and federal regulations. |

## **2.3 Other hazards**

### **Health Effects:**

NFPA Hazard Rating: Health: 2; Fire: 3; Reactivity: 0  
HMIS® Hazard Rating: Health: 2; Fire: 3; 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: Black Liquid  
Highly flammable liquid and vapor.  
Immediate effects: ND

### **Potential health effects**

Primary Routes of entry: Inhalation, ingestion, eye and skin contact.  
Signs and Symptoms of Overexposure: ND  
Eyes: Causes serious eye damage.  
Skin: Causes skin irritation. May cause an allergic skin reaction  
Ingestion: May be fatal if swallowed and enters airways.  
Inhalation: May cause drowsiness or dizziness.  
Chronic Exposure: Causes damage to organs through prolonged or repeated exposure  
Chemical Listed As Carcinogen Or Potential Carcinogen: No  
See Toxicological Information (Section 11)

### **Potential environmental effects**

See Ecological Information (Section 12)

### **Section 5: Fire Fighting Measures**

Flash Point: 11.6 °C (52.88 °F) Tagliabue closed cup

Flammable Limits: lower: 2 %, upper: 12 %

Auto-ignition point: 398.8 °C (749.84 °F)

Fire Extinguishing Media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.

Unusual Fire and Explosion Hazards: Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat.

Hazardous combustion products: Carbon dioxide, carbon monoxide, and hydrocarbons.

DOT Class: Flammable

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### **Section 6: Accidental Release Measures**

Steps to be Taken in Case Material is Released or Spilled: Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not allow product to enter sewer or waterways.

Clean-up methods: Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Store in a partly filled, closed container until disposal. Wash spillage site thoroughly with soap and water or detergent solution.

Waste Disposal Methods: Dispose of waste according to Federal, State and Local Regulations.

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### **Section 7: Handling and Storage**

Precautions to be taken in Handling and Storage:

Handling: Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.

Storage: Keep container closed. Store in a cool, dry, well-ventilated area. Protect from direct sunlight. Store in original container until ready to use. Keep out of reach of children and away from food and drink.

Storage temperature: 5.0 °C (41°F) - 30.0 °C (86°F). Outside temperature limits, the properties of the product will change.

Storage Pressure: NA

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### **Section 8: Exposure Controls / Personal Protection**

#### **Engineering Controls**

Ventilation required: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

#### **Personal Protection Equipment**

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

| Hazardous Component(s) | LD50s and LC50s  | Immediate and Delayed Health Effects  |
|------------------------|--|---|
| 2-Propanol             | Oral LD50 (RAT) = 5,045 mg/kg<br>Oral LD50 (RABBIT) = 6,410 mg/kg<br>Oral LD50 (RAT) = 4.7 g/kg<br>Oral LD50 (RABBIT) = 8.0 g/kg<br>Oral LD50 (RABBIT) = 5.03 g/kg<br>Dermal LD50 (RABBIT) = 12,800 mg/kg  | Allergen, Blood, Brain, Central nervous system, Irritant, Kidney, Liver, Spleen |
| Graphite               | None   | Lung  |
| n-Butyl alcohol        | Oral LD50 (RAT) = 790 mg/kg<br>Dermal LD50 (RABBIT) = 3,400 mg/kg<br>Inhalation LC50 (RAT, 4 h) = 8000 ppm   | Allergen, Central nervous system, Ear, Eyes, Irritant                           |
| 1-Methoxy -2-propanol  | Oral LD50 (RAT) = 36 g/kg<br>Oral LD50 (RAT) = 5.71 g/kg<br>Oral LD50 (RAT) = 7.51 g/kg<br>Oral LD50 (RABBIT) = 5.3 g/kg<br>Dermal LD50 (RABBIT) = 13 g/kg<br>Inhalation LC50 (RAT, 4 h) = 54.6 mg/l<br>Inhalation LC50 (RAT, 4 h) = 15,000 mg/l | Central nervous system, Developmental, Irritant                                 |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen<br>(Specifically Regulated) |
|------------------------|----------------|-----------------|---|
| 2-Propanol             | No             | No              | No  |
| Graphite               | No             | No              | No  |
| n-Butyl alcohol        | No             | No              | No  |
| 1-Methoxy -2-propanol  | No             | No              | No  |

#### Human experience:

- Inhalation:** Inhalation of vapors or mists of the product may be irritating to the respiratory system. Breathing high concentrations of vapor may cause anesthetic effects. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination.
- Skin contact:** Prolonged or excessive skin contact with this product may cause mild skin irritation. A component in this product may be absorbed through the skin, especially if skin is damaged. Repeated exposure may cause skin dryness or cracking. Dermatitis.
- Eye contact:** Causes eye irritation. Exposure to vapor may cause tearing of the eyes, irritation and burning sensation.
- Ingestion:** May irritate mouth, throat, and stomach if swallowed. May cause central nervous system depression. Toxic if swallowed. May cause dizziness, incoordination, headache, nausea, and vomiting. May cause drowsiness, faintness, weakness, collapse, and coma. Extreme overexposure may result in unconsciousness and possibly death.

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

Community Right-To-Know Act of 1986 (40 CFR 372). n-Butyl alcohol (CAS# 71-36-3).

**State Regulations**

California Proposition 65: Substances not listed.

**International Regulations**

Canada WHMIS:

CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

Europe EINECS Numbers: ND

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**Section 16: Other Information**

Label Information: Flammable

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.