Section 1: Product and Company Identification

Product Name: DAG-T-502 Carbon Paint
Synonym: Electrodag 502

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

GHS02    GHS07

GHS Categories
GHS02 – Flammable
   Flam. Liq. 2  H224: Extremely flammable liquid and vapor.

GHS07 – Irritant
   Skin Irr. 2  H315: Causes skin irritation.
   Eye Irrit. 2A  H319: Causes serious eye irritation.
   STOT, SE 3  H336: May cause drowsiness or dizziness.

2.2 Label elements

Hazard Pictograms

GHS02    GHS07

Signal Word: DANGER

Hazard Statements
H224   Highly flammable liquid and vapor.
H315   Causes skin irritation.
H319   Causes serious eye irritation.
H336   May cause drowsiness or dizziness.

Precautionary Statements
P210  Keep away from heat, sparks, open flames, hot surfaces - no smoking.
P233  Keep container tightly closed.
P273  Avoid release to the environment (particularly water).
P241  Use explosion-proof equipment.
P242  Use only non-sparking tools.
P242  Take precautionary measures against static discharge.
P261  Avoid breathing dust/fumes/vapor/mist/spray.
P264  Wash thoroughly after handling.
P271  Use only outdoors or in a well-ventilated area.
P280  Wear protective gloves, eye protection, and face protection.
P303+P361 If on skin (or hair): Take off immediately all contaminated clothing.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Call a poison control center or physician if you feel unwell.
P333+P313 If skin irritation occurs: Get medical attention.
P370+P378 In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.
P405  Store locked up.
P501  Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

**Health Effects:**
NFPA Hazard Rating: ND
HMIS® Hazard Rating: ND
(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

**Results of PBT and vPvB assessment:** ND

**Emergency overview**
Appearance: Black liquid.
Immediate effects: Irritation.

**Potential health effects**

- **Primary Routes of entry:** Skin/eye contact, inhalation.
- **Signs and Symptoms of Overexposure:**
  - Eyes: This product may be severely irritating to the eyes.
  - Skin: Irritating to skin. Prolonged or repeated contact may worsen irritation. A component in this product may be absorbed through the skin, especially if skin is damaged.
  - Ingestion: Harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury. This product may cause nervous system damage if swallowed.
  - Inhalation: This product is irritating to the respiratory system. High vapor concentrations may cause central nervous system depression (headache, nausea, dizziness).

**Chronic Exposure:** This product contains methyl ethyl ketone (MEK) which has been shown to cause minor toxic effects in laboratory animals at concentrations well above those acceptable in the workplace. No evidence of these effects exists for humans. This product contains graphite which can accumulate in lung tissue after long-term exposure to the dust. The potential for such exposure from the use of this product is very limited.

**Chemical Listed as Carcinogen or Potential Carcinogen:** Carbon black (1333-86-4)

See Toxicological Information (Section 11)

**Potential environmental effects**
See Ecological Information (Section 12)
### Section 3: Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)</th>
<th>%</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>NTP Carcinogen</th>
<th>IARC Carcinogen</th>
<th>OSHA regulated Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl ethyl ketone (78-93-3)</td>
<td>60-100</td>
<td>200 ppm</td>
<td>200 ppm TWA</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Carbon black (1333-86-4)</td>
<td>1-5</td>
<td>3.5 mg/m³</td>
<td>3 mg/m³ Inhalable fraction</td>
<td>No</td>
<td>2B</td>
<td>No</td>
</tr>
<tr>
<td>Graphite (7782-42-5)</td>
<td>1-5</td>
<td>5 mg/m³ Respirable fraction</td>
<td>2 mg/m³ Respirable fraction</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

### Section 4: First Aid Measures

#### If accidental overexposure is suspected

**Eye(s) Contact:** Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.

**Skin Contact:** Immediately flush with large quantities of water for at least 15 minutes. Remove contaminated clothing. GET MEDICAL ATTENTION.

**Inhalation:** Move to fresh air. If symptoms persist, seek medical advice.

**Ingestion:** Immediate medical treatment necessary. DO NOT induce vomiting unless directed to do so by medical personnel. If vomiting occurs, prevent aspiration by keeping the patient's head below the knees.

**Note to physician**

**Treatment:** ND

**Medical Conditions generally Aggravated by Exposure:** ND

### Section 5: Fire Fighting Measures

**Flash Point:** -5 °C (23°F) Tagliabue closed cup

**Flammable Limits:** Lower: ND Upper: 10%

**Auto-ignition point:** ND

**Fire Extinguishing Media:** Water spray (fog), foam, dry chemical or carbon dioxide. Avoid using a direct stream of water.

**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

**Unusual Fire and Explosion Hazards:** DANGEROUS when exposed to heat or flame. This material can be ignited by flame or spark under all normal atmospheric conditions. Formation of toxic gases is possible during heating or in fires.

**Hazardous combustion products:** Oxides of carbon. Irritating and toxic gases or fumes may be released during a fire.

**DOT Class:** Flammable liquid.

### Section 6: Accidental Release Measures

**Steps to be Taken in Case Material is Released or Spilled:**
Environmental precautions: Prevent further leakage or spillage if safe to do so. Block any potential routes to water systems. Remove all sources of ignition.

Clean-up methods: Soak up with inert absorbent. Store in a closed container until ready for disposal. Remove all sources of ignition. Ventilate area.

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 in well-ventilated areas. Do not inhale vapors and fumes. Wear suitable protective clothing, safety glasses and gloves. Remove all sources of ignition. Do not pressurize, cut, heat or weld containers. Empty product containers may contain product residue. Do not reuse empty containers. Make sure containers are properly grounded before use or transfer of material. Open bung slowly to relieve any internal pressure.

Storage: Protect from direct sunlight. Keep in a cool, well-ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. Ground and bond all metal containers for liquid transfer to avoid static sparks.

Storage temperature: From 0 °C (32°F) to 32 °C (89.6 °F)
Storage Pressure: ND

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Section 8: Exposure Controls / Personal Protection
Engineering Controls
Ventilation required: Use explosion-proof mechanical ventilation and local exhaust to control contaminants to within their occupational exposure limits during the use of this product.

Personal Protection Equipment
Respiratory protection: If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

Protective gloves: Chemical resistant, impermeable gloves. The use of butyl rubber gloves is recommended. Use of impervious apron and boots are recommended.

Eye protection: Wear safety glasses; chemical goggles (if splashing is possible).

Additional equipment: ND

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Section 9 Physical and Chemical Properties
Appearance and Physical State: Black liquid.
Odor (threshold): Ketone. (ND)
Specific Gravity (H₂O=1): 0.869
Vapor Pressure (mm Hg): 70 mm Hg
Vapor Density (air=1): ND
Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): ND
Boiling Point: 80 °C (176°F)
Melting point: -86.1 °C (-123°F)
pH: ND
Solubility in Water: Insoluble
Molecular Weight: ND

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Section 10: Stability and Reactivity
Stability: Stable at normal conditions.
Conditions to Avoid: High temperatures.
Materials to Avoid (Incompatibility): Strong oxidizing agents.
Hazardous Decomposition Products: Oxides of carbon. Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.
Hazardous Polymerization: ND

**Section 11: Toxicological Information**
Results of component toxicity test performed:

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>LD50s and LC50s</th>
<th>Immediate and Delayed Health Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl ethyl ketone</td>
<td>Oral LD50 (RAT) = 2,300 - 3,500 mg/kg&lt;br&gt;Oral LD50 (RAT) = 4,500 - 6,800 mg/kg&lt;br&gt;Dermal LD50 (RABBIT) = &gt; 8,000 mg/kg&lt;br&gt;Inhalation LC50 (RAT, 4 h) = 11700 ppm</td>
<td>Irritant, central nervous system</td>
</tr>
<tr>
<td>Carbon black</td>
<td>Oral LD50 (RAT) = &gt; 8,000 mg/kg</td>
<td>Respiratory, Some evidence of carcinogenicity</td>
</tr>
<tr>
<td>Graphite</td>
<td>None</td>
<td>Lung</td>
</tr>
</tbody>
</table>

Human experience: ND
This product does contain compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.
IARC: Carbon black (1333-86-4), 2B

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

**Section 13 Disposal Considerations**
RCRA 40 CFR 261 Classification: U159. Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes. If discarded, this product is considered a RCRA ignitable waste, D001. Care must be taken to prevent environmental contamination from the use of this material.
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: Ethyl methyl ketone
Hazard Class: 3
Packaging group: II
UN Number: UN1193
IATA: Proper shipping name: Ethyl methyl ketone
Hazard Class: 3
Packaging group: II
UN Number: UN1193
IMO: Proper shipping name: Ethyl methyl ketone
Class: 3
UN Number: UN1193
Packaging group: II
Marine Pollutant: No
Canadian TDG: Ethyl methyl ketone
Section 15: Regulatory Information

United States Federal Regulations
SARA (Sections 311/312): Immediate health, Fire, Delayed Health
SARA III (Section 313): Methyl ethyl ketone (CAS# 78-93-3)
RCRA: D001
TSCA: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
CERCLA: Methyl ethyl ketone (CAS# 78-93-3) RQ=5,000 lbs. (2,270 kg)

State Regulations
California Proposition 65: This product contains the following chemicals that are known to the State of California to cause cancer, birth defects or other reproductive harm: Carbon Black (1333-86-4).

International Regulations
Canada WHMIS: ND

Section 16: Other Information
Label Information: See section 2
European Risk and Safety Phrases: ND
European symbols needed: F
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.

SDS Form 0013F1V4