

Safety Data Sheet

Product No. 16056 DAG-T-502 Carbon Paint

Issue Date (05-13-15)

Review Date (08-31-17)

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 Irrit. 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.
P403+P233+P235	Store in a well-ventilated place. Keep container tightly closed. Keep cool.
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

Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL	ACGIH TLV	NTP Carcinogen	IARC Carcinogen	OSHA regulated Carcinogen
Methyl ethyl ketone (78-93-3)	60-100	200 ppm 590 mg/m ³	200 ppm TWA 300 ppm STEL	No	No	No
Carbon black (1333-86-4)	1-5	3.5 mg/m ³	3 mg/m ³ Inhalable fraction	No	2B	No
Graphite (7782-42-5)	1-5	5 mg/m ³ Respirable fraction 15 mg/m ³ Total dust. 15 MPPCF TWA	2 mg/m ³ Respirable fraction	No	No	No

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.

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

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

Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

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

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:

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

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

Packing group: II

UN Number: UN1193

IMO: Proper shipping name: Ethyl methyl ketone

Class: 3

UN Number: UN1193

Packing group: II

Marine Pollutant: No

Canadian TDG: Ethyl methyl ketone

Section 15: Regulatory Information

United States Federal Regulations

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

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

Europe EINECS Numbers: Methyl ethyl ketone (78-93-3): 201-159-0, Carbon black (1333-86-4): 215-609-9, Graphite (7782-42-5): 231-955-3.

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

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