

SAFETY DATA SHEET

Product No. 16056 DAG-T-502 Carbon Paint

Issue Date: (05-13-15)

Review Date: (09-06-2022) Rev.: 3

Section 1: Product and Company Identification

Product Name: DAG-T-502 Carbon Paint

Synonym: Electrodag 502

Product Type: Coating

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

Signal Word: DANGER

**HIGHLY FLAMMABLE LIQUID AND VAPOR
CAUSES SKIN IRRITATION
CAUSES SERIOUS EYE IRRITATION
MAYCAUSE DROWSINESS OR DIZZINESS**

GHS Categories

GHS02 – Flammable

Flam. Liq. 2

GHS07 – Irritant

Skin Irri. 2

Eye Irrit. 2A

Specific Target Organ Toxicity (STOT)

SE 3

2.2 Label elements

GHS Pictograms



GHS02



GHS07

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

Prevention:

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.
 P243 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.

Response:

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.
 P337+P313 If eye irritation persists: Get medical attention.
 P362 Take off contaminated clothing.
 P370+P378 In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

Storage:

P403+P233+P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.
 P405 Store locked up.

Disposal:

P501 Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Section 3: Composition / Information on Ingredients

<u>Hazardous Component(s)</u>	<u>CAS Number</u>	<u>% w/w*</u>
Methyl ethyl ketone	78-93-3	80 - 90
1,1-Difluoroethylene, polymer with hexafluoropropylene and tetrafluoroethylene	25190-89-0	5 - 10
Carbon black	1333-86-4	1 - 5
Graphite	7782-42-5	1 - 5

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

Section 4: First Aid Measures

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.
Skin Contact: Immediately flush with large quantities of water for at least 15 minutes. Remove contaminated clothing. GET MEDICAL ATTENTION.
Eye(s) Contact: Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.
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.
Symptoms: See Section 11

Section 5: Fire Fighting Measures

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

Section 6: Accidental Release Measures

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

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.

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: For safe storage, store between 0 °C (32°F) to 32 °C (89.6 °F)
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.

Section 8: Exposure Controls / Personal Protection

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Methyl ethyl ketone	200 ppm TWA 300 ppm STEL	200 ppm (590 mg/m ³) PEL	None	None
1,1-Difluoroethylene, polymer with hexafluoropropylene and tetrafluoroethylene	None	None	None	None
Carbon black	3 mg/m ³ TWA Inhalable fraction.	3.5 mg/m ³ PEL	None	None
Graphite	2 mg/m ³ TWA Respirable fraction	5 mg/m ³ PEL Respirable fraction. 15 mg/m ³ PEL Total dust. 15 MPPCF TWA	None	None

Engineering Controls:	Use explosion-proof mechanical ventilation and local exhaust to control contaminants to within their occupational exposure limits during the use of this product.
Respiratory Protection:	If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.
Eye/Face Protection:	Wear safety glasses; chemical goggles (if splashing is possible).
Skin Protection:	Chemical resistant, impermeable gloves. The use of butyl rubber gloves, an impervious apron and boots are recommended.

Section 9 Physical and Chemical Properties

Physical State:	Liquid
Color:	Black
Odor:	Ketone
Odor threshold:	Not available
pH:	Not applicable
Vapor Pressure:	70 mm hg
Boiling Point:	80 °C (176°F)
Melting point:	-86.1 °C (-123°F)
Specific Gravity:	0.869
Vapor Density:	Not available
Flash Point:	-5 °C (23°F) Tagliabue closed cup
Flammable/Explosive Limits-lower:	Not available
Flammable/Explosive Limits-upper:	10%
Autoignition Temperature:	Not available
Flammability:	Not applicable
Evaporation Rate:	Not available
Solubility in Water:	Insoluble
Partition Coefficient (n-octanol/water):	Not available
VOC content:	755 g/L
Viscosity:	400-800 mPa.s
Decomposition temperature:	Not available

Section 10: Stability and Reactivity

Stability:	Stable at normal conditions.
Hazardous reactions:	None under normal processing.
Hazardous Decomposition Products:	Oxides of carbon. Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition
Incompatible materials:	Oxidizers
Conditions to avoid:	High temperatures. Avoid strong oxidizing agents.

Section 11: Toxicological Information

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation:	This product is irritating to the respiratory system. High vapor concentrations may cause central nervous system depression (headache, nausea, dizziness).
Skin contact:	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.

Eye contact: This product may be severely irritating to the eyes.

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.

<u>Hazardous Component(s)</u>	<u>LD50s and LC50s</u>	<u>Immediate and Delayed Health Effects</u>	<u>NTP Carcinogen</u>	<u>IARC Carcinogen</u>	<u>OSHA Carcinogen*</u>
Methyl ethyl ketone	Oral LD50 (Mouse) = 670 mg/kg 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	No	No	No
1,1-Difluoroethylene, polymer with hexafluoropropylene and tetrafluoroethylene	None	No Records	No	No	No
Carbon black	Oral LD50 (RAT) = > 8,000 mg/kg	Respiratory, Some evidence of carcinogenicity	No	Group 2B	No
Graphite	None	Lung	No	No	No

*Specifically Regulated

Section 12: Ecological Information

Ecological Information: Not available

Section 13 Disposal Considerations

Information provided is for unused products only.

Recommended method of disposal: Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

Hazardous waste number: 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.

Section 14: Transportation Information

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Ethyl methyl ketone
Hazard class or division: 3
Identification number: UN 1193
Packing group: II
DOT Hazardous Substance(s): Methyl ethyl ketone

International Air Transportation (ICAO/IATA)

Proper shipping name: Ethyl methyl ketone
Hazard class or division: 3
Identification number: UN 1193
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: Ethyl methyl ketone
Hazard class or division: 3
Identification number: UN 1193
Packing group: II

Section 15: Regulatory Information**United States Regulatory Information**

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA 12 (b) Export Notification: Polymer (CAS# 25190-89-0).

CERCLA/SARA Section 302 EHS: None above reporting de minimis.

CERCLA/SARA Section 311/312: Immediate Health, Fire, Delayed Health

CERCLA/SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40CFR 372). Methyl ethyl ketone (CAS# 78-93-3).

CERCLA Reportable quantity: Methyl ethyl ketone (CAS# 78-93-3) 5,000 lbs. (2,270 kg)

California Proposition 65: This product contains a chemical known in the State of California to cause cancer. Carbon Black (1333-86-4).

Canada Regulatory Information

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

Section 16: Other Information

Issue Date: (05-13-15)

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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

Abbreviations used in this document

NE= Not established
NA= Not applicable
NIF= No Information Found
ND= No Data

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