



Material Safety Data Sheet

Product No. 814-310, 814-312, 814-314, 814-316, 814-318, 814-320, 814-322, 814-324, 814-326, 814-328 Polycrystalline Diamond Suspension 0.1, 0.25, 0.5, 1.0, 3.0, 6.0, 9.0, 15, 30, 45 µm

Issue Date (04-19-03)

Review Date (04-12-12)

Section 1: Product and Company Identification

Product Name: Polycrystalline Diamond Suspension 0.1, 0.25, 0.5, 1.0, 3.0, 6.0, 9.0, 15, 30, 45 µm

Synonym: None

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
K-Gel(None)	ND	ND	ND	ND	ND	ND
Ethylene Glycol (107-21-1)	25	50 PPM	50PPM	No	No	No
*Propylene Glycol (57-55-6)	ND	NE	NE	No	No	No

* TW: 10 mg/M³ from AIHA

Section 3: Hazard Identification

Emergency overview

Appearance: Liquid

Immediate effects: ND

Potential health effects

Primary Routes of entry: Skin, inhalation

Signs and Symptoms of Overexposure: ND

Eyes: NE

Skin: NE

Ingestion: NE

Inhalation: NE

Chronic Exposure: NE

Chemical Listed As Carcinogen Or Potential Carcinogen: None

See Toxicological Information (Section 11)

Potential environmental effects

See Ecological Information (Section 12)

Section 4: First Aid Measures

If accidental overexposure is suspected

Eye(s) Contact: Wash out eyes for minimum of 15 minutes.

Skin Contact: Wash affected area with soap and water.

Inhalation: Remove to fresh air

Ingestion: Give plenty of fluids; Seek medical attention immediately.

Note to physician

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: 241 °F

Flammable Limits: NE

Auto-ignition point: NE

Fire Extinguishing Media: Alcohol foam, carbon dioxide, dry chemical, water spray.

Special Fire Fighting Procedures: ND

Unusual Fire and Explosion Hazards: None known

Hazardous combustion products: Carbon dioxide and carbon monoxide.

DOT Class: Not regulated.

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled: Use inert material; prevent material from spreading; dispose of immediately; wear protective equipment.

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: Store at room temperature, plus or minus 10 degrees, with adequate ventilation. Keep containers closed until ready to use

Storage temperature: Room temperature.

Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection

Engineering Controls

Ventilation required: Adequate ventilation.

Personal Protection Equipment

Respiratory protection: Adequate ventilation.

Protective gloves: Rubber gloves.

Skin protection: Protective clothing.

Eye protection: Goggles or safety glasses.

Additional clothing and/or equipment: ND

Exposure Guidelines

See Composition/Information on Ingredients (Section2)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Liquid, color varies with micron size.

Odor (threshold): Mild

Specific Gravity (H₂O=1): ND

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: Soluble

Molecular Weight: NA

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: ND

Materials to Avoid (Incompatibility): Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide and carbon dioxide when heated to decomposition.

Hazardous Polymerization: Will not occur

Section 11: Toxicological Information

Results of component toxicity test performed:

Ethylene Glycol (107-21-1), Rat (Oral) LD50: 4700 mg/kg; Rabbit (Skin) LD50: 9530 mg/kg. Irritation - skin rabbit: 555mg(open), mild; eye rabbit: 500mg/24H, mild.

Propylene Glycol (57-55-6), Rat (Oral) LD50: 20g/kg. Rabbit (Skin) LD50: 20.8g/kg. Irritation: Eye rabbit/Draize, 500 mg/24H mild.

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: None listed

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: Section 302: None listed

SARA Title III: Section 313: Ethylene Glycol (107-21-1) listed.

RCRA: None listed

TSCA: Chemical Inventory Status listed components: Ethylene Glycol (107-21-1) 12(b) No, 8 (d) No, Propylene Glycol (57-55-6) 12(b) No, 8 (d) No.

CERCLA: Ethylene Glycol (107-21-1), RQ = 5000 LBS (2277 Kg)

State Regulations

California Proposition 65: None listed

International Regulations

Canada WHMIS: Ethylene Glycol (107-21-1) DSL: Yes, NDSL: No. Propylene Glycol (57-55-6) DSL: Yes, NDSL: No

Europe EINECS Numbers: ND

Section 16: Other Information

Label Information: May cause irritation to eyes and skin.

European Risk and Safety Phrases: ND

European symbols needed: ND

Canadian WHMIS Symbols: ND

Estimated NFPA Hazard Rating: Health: **1**; Fire: **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

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