



Material Safety Data Sheet

Product No. 815-210, 815-212, 815-214, 815-216, 815-218, 815-220, 815-222, 815-224
Diamond Paste, Polycrystalline, 0.1, 0.25, 0.5, 1.0, 3.0, 6.0, 9.0, 15.0
µm

Issue Date (04-18-03)

Review Date (04-12-12)

Section 1: Product and Company Identification

Product Name: Diamond Paste, Polycrystalline

Synonym: Lapping compound water soluble

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
Triethanolamine (102-71-6)	ND	NE	5	No	No	No
Diethanolamine (111-42-2)	ND	NE	2	ND	ND	ND
*Diamond (7782-40-3)	ND	15**	10**	No	No	No

* Diamond is not a hazardous material. No acute or chronic health effects.

** Exposure limit for particulate Not Otherwise Classified (inhalational particles).

Section 3: Hazard Identification

Emergency overview

Appearance: Paste

Immediate effects: ND

Potential health effects

Primary Routes of entry: Skin, inhalation

Signs and Symptoms of Overexposure: ND

Eyes: May cause irritation.

Skin: May cause irritation.

Ingestion: ND

Inhalation: ND

Chronic Exposure: ND

Chemical Listed As Carcinogen Or Potential Carcinogen: ND

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; Seek medical attention immediately.

Skin Contact: Wash affected area with soap and water.

Inhalation: Remove to fresh air.

Ingestion: Do not induce vomiting; Seek medical attention immediately.

Note to physician

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: ND

Flammable Limits: ND

Auto-ignition point: ND

Fire Extinguishing Media: Carbon dioxide, dry chemical, foam.

Special Fire Fighting Procedures: Wear self contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards: ND

Hazardous combustion products: Oxides of carbon and nitrogen.

DOT Class: None

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 appropriate 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/minus 10 degrees, with adequate ventilation. Do not mix with products containing nitrates. Keep container 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, 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: Paste

Odor (threshold): Mild

Specific Gravity (H₂O=1): NE

Vapor Pressure (mm Hg): NE

Vapor Density (air=1): NE

Percent Volatile by volume: NE

Evaporation Rate (butyl acetate=1): NE

Boiling Point: NE

Freezing point / melting point: NE

pH: NE

Solubility in Water: Soluble

Molecular Weight: NA

Section 10: Stability and Reactivity

Stability:

Conditions to Avoid:

Materials to Avoid (Incompatibility):

Hazardous Decomposition Products:

Hazardous Polymerization:

Section 11: Toxicological Information

Results of component toxicity test performed: Diethanolamine (111-42-2): Rat (Oral)

Acute LD50: 710 mg/kg, Rabbit (Dermal) Acute LD50: 12200 mg/kg.

Triethanolamine (102-71-6): Rat (Oral) LD50: 4920 µL/kg, Rat(Dermal) LD50: >16 mL/kg, Rabbit (Oral) LD50: 2200 mg/kg. Rabbit (Dermal) LD50: >20 mL/kg.

Human experience: Mutagenicity: Triethanolamine (102-71-6): Mutations in Human Cells = 100 µmol/L

Diethanolamine (111-42-2): Hazardous in case of skin contact (Irritant).

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: Triethanolamine (102-71-6): Fish: Fathead Minnow: 5600 mg/L; 96H.

Chemical Fate Information: NE

Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: ND

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: None listed

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: Diethanolamine (111-42-2)

RCRA: None listed

TSCA: Triethanolamine (102-71-6) on List; Diethanolamine (111-42-2) 8(b) Inventory.

CERCLA: Diethanolamine (111-42-2) RQ: 100 LBS (45.4 Kg)

State Regulations

California Proposition 65: None listed

International Regulations

Canada WHMIS: ND

Europe EINECS Numbers: ND

Section 16: Other Information

Label Information: ND

European Risk and Safety Phrases: ND

European symbols needed: ND

Canadian WHMIS Symbols: ND

Hazard Rating: Health: **1**; Fire: **1**; Reactivity: **0**; Protective Equipment: B

(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

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.

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