

Safety Data Sheet

Product No. 894-10 to 894-18-1 Diamond Suspension, Monocrystalline , 0.1, 0.25, 1, 3, 6, 9, 15, 30, 45 µm
Issue Date (01-15-14)
Review Date (10-15-18)

Section 1: Product and Company Identification

Product Name: Diamond Suspension, Monocrystalline, 0.1, 0.25, 1, 3, 6, 9, 15, 30, 45 µm

Synonym: Water Based Diamond Compound

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

GHS Classification: Non-Hazardous

IDLH (Immediate Danger to Life and Health): None

Physical Hazards: Not Classified

Dry Dust / Inhalation Only:

Health Hazards: Classification of the Substance of Mixture

Label Elements

GHS Pictograms:



GHS Categories:

Skin Sensitisation – Category 1

Serious Eye Damage / Eye Irritation – Category 1

SIGNAL WORD: Warning

Hazard Statement(s):

H318: Causes Serious Eye Damage

H315: Causes Skin Irritation

H335: May Cause Respiratory Irritation

H313: May be Harmful in Contact With Skin

Precautionary Statements:

P202: Do not handle until all safety precautions have been read and understood.

P233: Keep container tightly closed.

P260: Do not breathe dust

P264: Wash thoroughly after handling.

P281: Wear protective gloves, clothing, eye protection, and face protection.

Precautionary Response:

P305: IF IN EYES: Rinse cautiously with water for 15 minutes.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P303+P332: IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice. Take off contaminated clothing and wash it before reuse.

2.2 Other hazards: ND

Additional hazard information:

Health Effects:

HMIS III Rating Hazard Rating: Health: 1; Flammability: 0; Physical: 0, Personal Protection: E

NFPA Rating Hazard Rating: Health: 1; Fire: 0; Reactivity: 0

(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Results of PBT and vPvB assessment:

PBT: NA

vPvB: NA

Emergency overview

Appearance: Paste, Color: Dependent on Size.

Immediate effects: ND

Potential health effects of Wet Paste

Primary Routes of entry: Ingestion, Skin contact, Inhalation (Mist)

Signs and Symptoms of Overexposure: ND

Eyes: Causes irritation.

Skin: May Cause skin irritation

Ingestion: May cause Abdominal pain, see First Aid section 4.

Inhalation: Not likely to occur unless mist is formed

Chronic Exposure: ND

Chemical Listed As Carcinogen Or Potential Carcinogen: No

See Toxicological Information (Section 11)

Potential environmental effects

See Ecological Information (Section 12)

Section 3: Composition / Information on Ingredients

The terms “hazardous” and “hazardous materials” as used within this SDS (EU - MSD) should be interpreted as defined by, and accordance with, the OSHA Hazard Communication Standard (29 CFR 1910:1200) and the EU Occupational Exposure Limits (OEL) REGULATION (EC) No 1272/2008 including cited Appendices, Lists, References, etc., all of which are hereby incorporated by reference and stated below as appropriate.

OECD SIDS documents published by UNEP Chemicals in response to its mandate to facilitate the access to information needed for health and environmental risk assessment of chemicals. The documents contain the information gathered and an Initial Assessment performed under the framework of the OECD HPV Chemicals Programme.

Principle Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL mg/m3	ACGIH TLV mg/m3	NTP	IARC	OSHA regulated
Polypropylene Glycol (25322-69-4) EC No. 500-039-8	30.0 - 60.0	10	10	No	No	No
Diamond (7782-40-3) EC No.231-111-4	5.0 - 35.0	10*	10*	No	No	No

Proprietary Non-Haz Ingredients (ND)	20-35	ND	ND	No	No	No
Proprietary Non-Hazardous Dye (ND)	0.0-1.0	ND	ND	No	No	No

* Dry Dust

Section 4: First Aid Measures

If accidental overexposure is suspected

Eye(s) Contact: Immediately rinse with water for a prolonged period while holding the eyelids wide open. Seek medical attention if material is embedded in eye. If eye irritation persists: Get medical advice and attention.

Skin Contact: Rinse immediately with plenty of water. Gently wash with plenty of soap and water. Obtain medical attention if irritation persists.

Inhalation: If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Drink 1 or 2 glasses of water. If vomiting occurs, keep head low so that stomach content does not get into the lungs.

Note to physician

Treatment: ND

Medical Conditions generally Aggravated by Exposure: **Dry Dust**

Symptoms/injuries: Repeated or prolonged inhalation may damage lungs.

Symptoms/injuries after inhalation: May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.

Symptoms/injuries after skin contact: Prolonged contact with large amounts of dust may cause mechanical irritation. Dust may cause irritation in skin folds or by contact in combination with tight clothing.

Symptoms/injuries after eye contact: Redness, pain.

Symptoms/injuries after ingestion: Abdominal pain.

Chronic symptoms: Respiratory difficulties.

Section 5: Fire Fighting Measures

Flash Point: Will Not Burn

Flammable Limits: None

Auto-ignition point: None

Fire Extinguishing Media: None

Special Fire Fighting Procedures: None for product. Otherwise Self-Contained Breathing Apparatus and clothing for chemical fires. Protection During Firefighting: Use normal individual fire protective equipment.

Unusual Fire and Explosion Hazards: None

Hazardous combustion products: Keep away from strong oxidizing agents and from heat and ignition sources.

DOT Class: None

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled: Do not touch damaged containers or spilled material unless wearing appropriate protective equipment. Keep upwind. Keep out of low lying areas. Ventilate closed spaces before entering.

Environmental Precautions: Prevent further leakage or spillage and comply with local, state and federal regulations. Methods / Materials for Containment & Clean-up:

If product has dried, avoid generation of dust during clean-up of spills. Recover the dried product by vacuuming, shoveling or sweeping. Vacuum must be fitted with HEPA filter to prevent release of particulates during clean-up. Liquid product can be wiped or mopped up and disposed of accordingly.

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: Do not breathe dust. Avoid generation of dust during clean-up of spills. Recover the product by vacuuming, shoveling or sweeping. Vacuum must be fitted with HEPA filter to prevent release of particulates during clean-up. Wear suitable protective clothing, gloves and eye/face protection. If airborne dust is generated, use the appropriate NIOSH approved respiratory protection.

Conditions for Safe Storage: Store in original tightly closed container. Keep away from food, drink and animal feeding stuffs. Use care in handling /storage. Store in accordance with local / regional / national / international regulation. Keep out of reach of children. Always use oldest stock first.

Storage temperature: Room Temperature.

Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection

Engineering Controls

Ventilation required: Provide adequate general and local exhaust ventilation. Control Parameters: Use in accordance with safest practices.

TLV: Threshold Limit Value of a chemical substance is a level to which it is believed a worker can be exposed day after day for a working lifetime without adverse health effects.

TWA: (Time Weighted Average - TLV-TWA): average exposure on the basis of a 8h/day, 40h/week work schedule

STEL: (Short Term Exposure Level) is an employee's 15-minute time weighted average exposure at any time during a work day and cannot be repeated more than 4 times in a day.

Personal Protective Equipment: Use chemical goggles or safety glasses and chemical resistant gloves while handling under normal conditions.

Personal Protection Equipment

Respiratory protection: Use an appropriate NIOSH approved respirator if airborne dust concentrations exceed the appropriate PEL or TLV. All requirements set forth in 29CFR1910.134 must be met.

Protective gloves: Nitrile gloves are recommended. Be cautious as the liquid may penetrate the glove. Frequent change is advisable.

Skin protection: Wear gloves and protective clothing as required.

Eye protection: Chemical / splash goggles are recommended.

Additional clothing and/or equipment: Eye wash station must be present.

Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Paste, Slightly Sweet Color: Dependent on Size

Odor (threshold): ND

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: <0 degree C

pH: NA

Solubility in Water: Completely Soluble

Molecular Weight: NA

Section 10: Stability and Reactivity

Stability: This composition is stable under normal conditions.

Conditions to Avoid: Extreme Temperatures

Materials to Avoid (Incompatibility): Strong Oxidizers

Hazardous Decomposition Products: Carbon and Nitrogen Oxides.

Hazardous Polymerization: Hazardous reaction will not occur under normal conditions.

Section 11: Toxicological Information

Results of component toxicity test performed:

Polypropylene glycol - 25322-69-4: Acute toxicity LD50 Oral - Rat - > 2,000 mg/kg

Diamond - 7782-40-3: Acute Toxicity - Oral - LD50 - Mouse: 10,000 mg / kg

Acute Toxicity: May cause irritation or burns to eyes, skin, and respiratory system.

Skin Corrosion / Irritant: Irritating to skin.

Serious Eye Damage / Irritant: Risk of serious damage to eyes.

Respiratory / Skin Sensitisation: Not Classified

Germ Cell Mutagenicity: Not Classified

Carcinogenicity: Not Classified

Reproductive Toxicity: Not Classified

Target Organ Toxicity (Single Exposure): May cause respiratory / skin irritation.

Target Organ Toxicity (Repeated Exposure): May cause respiratory / skin irritation.

Aspiration Hazard: Not Classified

Teratogenicity: Not Classified

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:

Ecotoxicity: This product is not expected to be toxic to the environment. Adopt environmental controls to prevent the product from being released into the environment.

Persistence and Degradability: Not readily biodegradable.

Bioaccumulative Potential: Not expected to bio accumulate

Mobility in Soil: No information available

Other Adverse Effects: No information available

Chemical Fate Information: ND

Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: You may moisten product to be swept.

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: Not regulated

IATA: 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: This product contains the following chemicals subject to annual release reporting requirements Under SARA Title III, Section 313 (40 CFR 372): Methanol – 67-56-1

RCRA: None listed

TSCA: All of the components of this material are listed on the TSCA Chemical Substances Inventory.

CERCLA: No reportable quantity for this product.

Clean Water Act (CWA): None listed under sections of the Clean Water Act. Contact your local / state authorities to determine if substances are regulated under their jurisdiction

State Regulations

California Proposition 65: This product does not contain chemicals regulated under California Proposition 65.

U.S. - New Jersey – Right to Know Hazardous Substance List – Not Regulated

International Regulations

EUROPEAN / INTERNATIONAL REGULATIONS:

Control of Substances Hazardous to Health (COSHH):

Component(s) are listed under various sections of the COSHH regulation. Contact your local authorities to determine if substances are regulated under their jurisdiction.

Scottish Environmental Protection Agency (SEPA):

Component(s) are listed under various sections of SEPA. Contact your local authorities to determine if substances are regulated under their jurisdiction.

Canada WHMIS: Canada: Contact your local authorities to determine if substances are regulated under their jurisdiction.

Europe EINECS Numbers: ND

Section 16: Other Information

Label Information: See Section 2

European Risk and Safety Phrases: European Union Directives 67/548/EEC and 1999/45/EC

Safety Phrases: S 22 Do not breathe dust.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S 38 In case of insufficient ventilation wear suitable respiratory equipment.

S 36 Wear suitable protective clothing

European symbols needed: See Section 2

Canadian WHMIS Symbols: See Section 2

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.