



Material Safety Data Sheet

Product No. 18706 DAPI, Fluorescent Dye

Issue Date (05-10-12)

Review Date (06-01-12)

Section 1: Product and Company Identification

Product Name: DAPI, Fluorescent Dye

Synonym: 4', 6-Diamidino-2-Phenylindole Dihydrochloride, 2-(4-Amidinophenyl)-6-indolecarbamidine dihydrochloride

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
4', 6-Diamidino-2-Phenylindole Dihydrochloride (28718-90-3)	≥ 98	ND	ND	No	No	No

No ingredients are hazardous according to OSHA criteria.

Section 3: Hazard Identification

Emergency overview

Appearance: Solid, Yellow powder.

Immediate effects: Irritation.

Potential health effects

Primary Routes of entry: Inhalation, ingestion, eye and skin.

Signs and Symptoms of Overexposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Eyes: Causes eye irritation.

Skin: May be harmful if absorbed through the skin. May cause irritation.

Ingestion: May be harmful if swallowed.

Inhalation: May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.

Chronic Exposure: Chemical Listed As Carcinogen Or Potential Carcinogen: No

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: Immediately flush eyes with copious amounts of water for at least 15 minutes.

Skin Contact: Immediately wash skin with soap and copious amounts of water.

Inhalation: Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: If person is conscious, wash out with water. Call a physician.

Note to physician

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: Not flammable or combustible.

Thermal decomposition : > 330 °C

Flammable Limits: ND

Auto-ignition point: ND

Fire Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foams.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards: ND.

Hazardous combustion products: Emits toxic fumes under fire conditions.

DOT Class: Not regulated

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled: Personal precautions: Avoid dust formation. Avoid breathing vapors, mist or gas. Environmental precautions: Do not let product enter drains. Methods and materials for containment and cleaning up: Sweep up and shovel. Keep in suitable, closed containers for disposal.

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 contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Keep tightly closed and avoid light.

Storage temperature: Recommended storage temperature: 2 - 8 °C

Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection

Engineering Controls

Ventilation required: Local mechanical exhaust required.

Personal Protection Equipment

Respiratory protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

Protective gloves: Compatible chemical-resistant gloves.

Skin protection: Wear protective clothing.

Eye protection: Wear chemical safety goggles.

Additional clothing and/or equipment: ND

Exposure Guidelines

See Composition/Information on Ingredients (Section2)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Solid, Yellow powder.

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: ND

pH: 4.0 - 5.0 at 10 g/l at 20 °C (68 °F)

Solubility in Water: Soluble

Molecular Weight: 350.25

Formula: C₁₆H₁₅N₅·2HCL

Section 10: Stability and Reactivity

Stability: Stable.

Thermal decomposition > 330 °C

Conditions to Avoid: ND

Materials to Avoid (Incompatibility): Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, and Hydrogen chloride gas.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Results of component toxicity test performed: ND

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: Offer surplus and non-recyclable solutions to a licensed disposal company.

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 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Section: 311/312 No SARA Hazards

SARA Title III: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

RCRA: None listed.

TSCA: ND

CERCLA: ND

State Regulations

California Proposition 65: This product **does not** contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

International Regulations

Canada WHMIS: ND

Europe EINECS Numbers: 4',6-Diamidino-2-Phenylindole Dihydrochloride (28718-90-3) EINECS #: 249-186-7.

Section 16: Other Information

Label Information: Irritant.

European Risk and Safety Phrases: R 36/37/38: Risk Phrases: Irritating to eyes, respiratory system and skin. S 26-36: Safety Phrases: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

European symbols needed: Xi.

Canadian WHMIS Symbols: ND

HMIS® Hazard Rating: Health: **0**; Flammability: **0**; Physical Hazard: **0**

NFPA Hazard Rating: Health: **0**; Fire: **0**; 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

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.

MSDS Form 0013F1 V2