



Material Safety Data Sheet

Product No. 610-50, -53, -56, -58, -60, -61, -63, -66, -69, -73, -76 Certified Latex Nanosphere 20, 50, 80, 100, 150, 200, 240, 350, 500, 600, 900 nm
Issue Date (05-01-06)
Review Date (04-12-12)

Section 1: Product and Company Identification

Product Name: Certified Latex Nanosphere

Synonym: Polymer Nanosphere Suspension

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/m ³	ACGIH TLV mg/m ³	NTP	IARC	OSHA regulated
Solid polymer microspheres composed of polystyrene (9003-53-6) OR Solid polymer microspheres composed polystyrene divinylbenzene (9003-70-7)	<0.1 – 10 (varies depending on product)	NE	NE	No	No	No
Water (7732-18-5)	90 – 99.9+	NE	NE	No	No	No
Dispersant/surfactant (Proprietary)	<0.5 (if any)	NE	NE	No	No	No
Preservative (Proprietary)	<0.5 (if any)	NE	NE	No	No	No

NOTE: This MSDS addresses potential worker health and safety issues associated with the handling of the final product (i.e., during its transportation, distribution, and use).
Occupational Exposure Limit: None established by OSHA, ACGIH or Ted Pella, Inc.

Section 3: Hazard Identification

Emergency overview

Appearance: White or colorless liquid

Immediate effects: Irritation.

Potential health effects

Primary Routes of entry: Inhalation, accidental ingestion, skin or eye contact.

Signs and Symptoms of Overexposure:

Eyes: If suspension contacts eye, may cause reversible irritation.

Skin: If suspension contacts skin, may cause reversible irritation.

Ingestion: ND

Inhalation: May cause lung irritation if inhaled.

Chronic Exposure: If inhaled in large quantities, may cause reversible lung irritation.

Chemical Listed As Carcinogen Or Potential Carcinogen: Ingredients are not listed by NTP, IARC or OSHA as carcinogens.

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 thoroughly with water. If an irritation develops, seek medical advice.

Skin Contact: Wash thoroughly with soap and water. If an irritation develops, seek medical advice.

Inhalation: Remove to fresh air and seek medical advice.

Ingestion: Give one or two glasses of water and seek medical advice.

Note to physician

Treatment: ND

Medical Conditions generally Aggravated by Exposure: None known.

Section 5: Fire Fighting Measures

Flash Point: NA

Flammable Limits: Not considered flammable or explosive.

Auto-ignition point: NA

Fire Extinguishing Media: Use extinguishing media appropriate for surrounding fire (water, foam, vaporizing liquid or multipurpose dry chemical).

Special Fire Fighting Procedures: ND

Unusual Fire and Explosion Hazards: NA

Hazardous combustion products: ND

DOT Class: Not classified

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled: Areas covered with spilled microspheres maybe be slippery. If material is spilled or released, barricade off the area. Collect material by wiping the spill area with paper towel or disposable wipe, and place materials into an appropriate container. Avoid inhaling fine particle dust. Discard collected material in containers suitable for proper 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: When creating aerosols of fine particles, use minimal and directional (away from the user) airflow. Keep tightly sealed to prevent contamination. Avoid damaging or puncturing containers.

Storage temperature: Between 4 °C to 30 °C unless otherwise specified on product label or literature.

Storage Pressure: ND

Section 8: Exposure Controls / Personal Protection

Engineering Controls

Ventilation required: Use minimal and directional (away from user) airflow to minimize worker exposure.

Personal Protection Equipment

Respiratory protection: NIOSH approved filtering dust mask is recommended for dust and aerosol protection.

Protective gloves: Powder-free latex or vinyl gloves are suggested.

Skin protection: ND

Eye protection: Safety glasses with side shields are suggested.

Additional clothing and/or equipment: ND

Exposure Guidelines

See Composition/Information on Ingredients (Section2)

Section 9 Physical and Chemical Properties

Appearance and Physical State: White or colorless liquid

Odor (threshold): Odorless

Specific Gravity (H₂O=1): ND

Vapor Pressure (mm Hg): Negligible

Vapor Density (air=1): Negligible

Polymer Density: 1.05 g/cm³

Suspension Density: 1.0 – 1.05 g/cm³

Percent Volatile by volume: Negligible

Evaporation Rate (butyl acetate=1): ND

Boiling Point: 100 °C (as water)

Freezing point / melting point: 0 °C (as water)

pH: ND

Solubility in Water: Microspheres are insoluble

Molecular Weight: NA/Mixture

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: ND

Materials to Avoid (Incompatibility): Not known.

Hazardous Decomposition Products: Not known.

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: All wastes containing the product should be specially contained, properly labeled, and stored separately from other facility waste discharges. Dispose of any waste residues according to prescribed federal, state, and local guidelines (e.g. to an appropriately permitted chemical waste incinerator). Rinse waters resulting from spill cleanups should be discharged in an environmentally safe manner (e.g., appropriately permitted municipal or on-site wastewater treatment facility or be collected for disposal according to prescribed federal, state and local guidelines). 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 classified

IATA: Proper shipping name: Not classified

IMO: Proper shipping name: Not classified

Marine Pollutant: No

Canadian TDG: Not classified

Section 15: Regulatory Information

United States Federal Regulations

MSDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.

SARA: Not listed

SARA Title III: Not listed

RCRA: Not listed

TSCA: Not listed

CERCLA: Not listed

State Regulations

California Proposition 65: Not listed

International Regulations

Canada WHMIS: Materials in this product are listed on the CPR Inventory List.

Europe EINECS Numbers: Water (7735-18-5): EINECS#: 231-791-2.

Section 16: Other Information

Label Information: None

European Risk and Safety Phrases: Not required.

European symbols needed: ND

Canadian WHMIS Symbols: ND
Hazard Rating: Health: **0**; Fire: **0**; Reactivity: **0**
(Estimated Hazard Rating)
(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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