

## 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 (06-06-13)**

**Review Date (08-31-17)**

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### Section 1: Product and Company Identification

**Product Name: Certified Latex Nanosphere**

Synonym: Polymer Latex Suspension

**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**

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### Section 2: Hazard Identification

#### 2.1 Classification of the substance or mixture

GHS Pictograms: NA

GHS Categories: NA

#### 2.2 Label elements

Hazard Pictograms: NA

Signal Word: NA

Hazard Statements: NA

Precautionary Statements: NA

#### 2.3 Other hazards

#### Health Effects:

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

HMIS® Hazard Rating: Health: 0; 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: 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)

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### Section 3: Composition / Information on Ingredients

Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL mg/m <sup>3</sup>	ACGIH TLV mg/m <sup>3</sup>	NTP Carcinogen	IARC Carcinogen	OSHA regulated Carcinogen
Polystyrene (9003-53-6) EC-No. 500-008-9 -OR- Polystyrene divinylbenzene (9003-70-7) EC-No. NA	0.1-10%	NE	NE	No	No	No

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### Section 4: First Aid Measures

#### If accidental overexposure is suspected

Eye(s) Contact: If easy to do, remove contact lenses, if worn. Immediately flush eyes with copious quantities of water for at least 15 minutes. If irritation occurs or persists, notify medical personnel and supervisor.

Skin Contact: Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor.

Inhalation: Immediately move exposed subject to fresh air. If not breathing, give artificial respiration. If breathing is labored, administer oxygen. Immediately notify medical personnel and supervisor.

Ingestion: If swallowed, call a physician immediately. Do not induce vomiting unless directed by medical personnel. Do not give anything to drink unless directed by medical personnel. Never give anything by mouth to an unconscious person. Notify medical personnel and supervisor.

#### Note to physician

Treatment: Treat symptomatically and supportively.

Medical Conditions generally Aggravated by Exposure: None known or reported.

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### Section 5: Fire Fighting Measures

Flash Point: NA

Flammable Limits: Not considered flammable or explosive.

Auto-ignition point: NA

Fire Extinguishing Media: Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate of surrounding fire and materials.

Special Fire Fighting Procedures: In case of fire in the surrounding, use appropriate extinguishing agent. Wear full protective clothing and approved, positive pressure, self-contained breathing apparatus. Decontaminate all equipment after use.

Unusual Fire and Explosion Hazards: NA

Hazardous combustion products: May emit toxic fumes of carbon monoxide and carbon dioxide.

DOT Class: Not classified

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## Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled:

### Personal precautions, protective equipment and emergency procedures

If the product is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment (see section 8). Area should be adequately ventilated.

**Environmental precautions:** Do not empty into drains. Avoid release into the environment.

**Methods and materials for containment and clean-up:** Surround spill with absorbents and place a damp cloth or towel over the area to minimize entry into the air. Add excess liquid to allow the material to enter into solution. Capture remaining liquid onto spill absorbents. Place spill materials into a leak-proof container for disposal in accordance with applicable waste disposal regulations (see section 13). Decontaminate the area twice with an appropriate solvent.

**Waste Disposal Methods:** Dispose of waste according to Federal, State and Local Regulations.

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## Section 7: Handling and Storage

Precautions to be taken in Handling and Storage:

Handling:	Avoid contact with eyes, skin, and other mucous membranes. Wash thoroughly after handling. Avoid breathing dust/mist/spray.
Storage:	Store in a tightly-closed container.
Storage temperature:	Between 4° and 30 °C
Storage Pressure:	NA

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## Section 8: Exposure Controls / Personal Protection

### Engineering Controls

Ventilation required: Use local exhaust and/ or enclosure at aerosol/mist-generating points.

### Personal Protection Equipment

Respiratory protection: If handling bulk solution: choice of respiratory protection should be appropriate to the task and the level of existing engineering controls. For routine handling tasks, an approved and properly fitted air-purifying respirator with appropriate HEPA filters should provide ancillary protection based on the known or foreseeable limitations of existing engineering controls.

Protective gloves: Nitrile or other impervious gloves.

Skin protection: Appropriate gloves, lab coat, or other protective clothing if skin contact is likely.

Eye protection: Safety goggles with side shields, chemical splash goggles, or full face shield, if necessary, based on the job activity and potential for contact with eyes and face.

Additional clothing and/or equipment: NA

### Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

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## Section 9 Physical and Chemical Properties

Appearance and Physical State: White or colorless suspension/fluid

Odor (threshold): NA

Specific Gravity (H<sub>2</sub>O=1): ND

Vapor Pressure (mm Hg): Negligible

Polymer Density (g/cm<sup>3</sup>): 1.05

Suspension Density (g/cm<sup>3</sup>): 1.0

Percent Volatile by volume: Negligible

Evaporation Rate (butyl acetate=1): ND

Boiling Point: 100 °C (as water)

Freezing point: 0 °C (as water)

pH: 5-8

Solubility in Water: Microspheres are insoluble in water.  
Molecular Weight: NA (mixture)

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### **Section 10: Stability and Reactivity**

Stability: Stable

Conditions to Avoid: Excessive heat.

Materials to Avoid (Incompatibility): ND

Hazardous Decomposition Products: Not known.

Hazardous Polymerization: Will not occur.

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### **Section 11: Toxicological Information**

Results of component toxicity test performed (Polystyrene):

Inhalation LD30 (Rat): 56.6 g/m<sup>3</sup>, 30 mo.

Human experience: ND

This product does not contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

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### **Section 12: Ecological Information**

Ecological Information: ND

Chemical Fate Information: ND

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### **Section 13 Disposal Considerations**

RCRA 40 CFR 261 Classification: ND

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.

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### **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.

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### **Section 15: Regulatory Information**

#### **United States Federal Regulations**

SDS 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: No

#### **International Regulations**

Canada WHMIS: Materials in this product are listed on the CPR inventory list.

Europe EINECS Numbers: Water (7732-18-5): EINECS #231-791-2; Polystyrene

**Section 16: Other Information**

European Risk and Safety Phrases: NA

European symbols needed: ND

Canadian WHMIS Symbols: ND

**Abbreviations used in this document**

NE= Not established

NA= Not applicable

NIF= No Information Found

ND= No Data

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**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.