

## Safety Data Sheet

**Product No. 815-120, 815-120-1 Colloidal Silica CS1, Average Particle Size 80 nm**

**Issue Date (01-15-14)**

**Review Date (10-15-18)**

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### Section 1: Product and Company Identification

**Product Name: Colloidal Silica CS1, Average Particle Size 80 nm**

Synonym: Colloidal Silica

#### 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

**GHS Classification: Non Hazardous**

**IDLH (Immediate Danger to Life and Health: None**

**Physical Hazards: Not Classified.**

**Health Hazards: Classification of the Substance or Mixture Dry Dust/Inhalation):**

**Skin Sensitisation – Category 1**

**Serious Eye Damage/Eye Irritation- Category 1**

**GHS Label elements for Dry Dust Only.**

#### Hazard Pictograms



**Signal Word: Warning**

#### Hazard Statements for Dry Dust:

H318 Causes serious eye damage

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H313 May be harmful in contact with the skin.

#### Precautionary Statements for Dry Dust:

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.

## 2.3 Other hazards

IDLH (Immediate Danger to Life and Health): None

### Health Effects:

NFPA Hazard Rating: ND

HMIS® 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: ND

vPvB: ND

### Emergency overview

Appearance: Blue liquid.

Immediate effects: May cause slight irritation to skin and eyes.

### Potential health effects

Signs and Symptoms of Overexposure: ND

Eyes: Slightly irritating, high concentrations may cause conjunctivitis, not corrosive

Skin: Non-irritating to rabbit skin and non-sensitizing to guinea pig skin. Very low toxicity by absorption.

Ingestion: Very low toxicity.

Inhalation: Spray mist or dry dust may cause congestion, coughing, granuloma in lungs.

Chronic Exposure: ND

Chemical Listed as Carcinogen or Potential Carcinogen: None

See Toxicological Information (Section 11)

### Potential environmental effects

See Ecological Information (Section 12)

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## Section 3: Composition / Information on Ingredients

Principle Components (chemical and common names) (Cas. No)	%	OSHA PEL mg/m3	ACGIH TLV mg/m3	NTP Carcinogen	IARC Carcinogen	OSHA regulated Carcinogen
Propylene Glycol (57-55-6) EC-No. 200-338-0	20.0- 40.0	ND	ND	No	No	No
Silicon Dioxide (7631-86-9) EC-No. 231-545-4	20.0- 40.0	6	10	No	No	No
Proprietary non-hazardous ingredients	20.0- 59.0	ND	ND	No	No	No
Proprietary non-hazardous dye	0.0- 1.0	ND	ND	No	No	No

Hazardous mixtures: None.

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## 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: ND

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#### **Section 5: Fire Fighting Measures**

Flash Point: Will not burn.

Flammable Limits: NA

Auto-ignition point: NA

Fire Extinguishing Media: Use ABC-type fire extinguisher for surrounding fire.

Special Fire Fighting Procedures: Use full-face self-contained breathing apparatus and impervious clothing for chemical fires.

Unusual Fire and Explosion Hazards: NA

Hazardous combustion products: ND

DOT Class: None

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#### **Section 6: Accidental Release Measures**

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

**Personal precautions/protective equipment:** 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 and cleanup:** 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.

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#### **Section 7: Handling and Storage**

Precautions to be taken in Handling and Storage:

Handling: 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.

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: Cool-to-ambient.

Storage Pressure: NA

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## Section 8: Exposure Controls / Personal Protection

### Engineering Controls

Ventilation required: Provide adequate general and local exhaust ventilation.

### 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 recommended.

Skin protection: Impervious gloves, apron and boots.

Eye protection: Chemical/splash goggles recommended.

Additional clothing and/or equipment: Eye wash station.

### Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

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## Section 9 Physical and Chemical Properties

Appearance and Physical State: Blue liquid.

Odor (threshold): None (NA)

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

Vapor Pressure (mm Hg): NA

Vapor Density (air=1): NA

Percent Volatile by volume: NA

Evaporation Rate (butyl acetate=1): NA

Boiling Point: 100 °C

Freezing point / melting point: 0 °C

pH: ~10

Solubility in Water: Soluble.

Molecular Weight: NA

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## Section 10: Stability and Reactivity

Stability: Stable under normal conditions.

Conditions to Avoid: Extreme temperatures.

Materials to Avoid (Incompatibility): Strong oxidizers.

Hazardous Decomposition Products: Carbon and nitrogen oxides.

Hazardous Polymerization: Will not occur.

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## Section 11: Toxicological Information

Acute toxicity (Silicon Dioxide – 7631-86-9):

Oral LD50 (mouse): 7000 mg/kg

The revised IDLH is 3000 mg/m<sup>3</sup> based on being 500x the NIOSH REL of 6 mg/m<sup>3</sup>.

Skin corrosion/irritant: Irritating to skin.

Serious eye damage/irritant: Risk of serious damage to eyes.

Target organ toxicity (single exposure): May cause respiratory/skin irritation.

Target organ toxicity (repeated exposure): May cause respiratory/skin irritation.

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

Chemical Fate Information: ND

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## Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: ND

You may moisten the product to be swept. 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: No

SARA Title III: Section 302: No. Section 311/312: No. Section 313: No.

RCRA: No

TSCA: All components are listed.

CERCLA: No reportable quantity for this product.

### State Regulations

California Proposition 65: None

### International Regulations

Canada WHMIS: ND

Europe EINECS Numbers: ND

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## Section 16: Other Information

European Risk and Safety Phrases: S22: Do not breathe dust. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S38: In case of insufficient ventilation wear suitable respiratory equipment. S36: Wear suitable protective clothing.

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.