

**Safety Data Sheet**

**Product No. 19312, 19314 Lead Citrate, Trihydrate**

**Issue Date (08-14-13)**

**Review Date (01-30-15)**

---

**Section 1: Product and Company Identification**

**Product Name** Lead Citrate, Trihydrate

Synonym: Trilead dicitrate,

**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: Hazard Identification**

GHS Pictograms:



Health hazard    Environ Damaging    Irritant

GHS Categories:

GHS08 - Health Hazard: Repr. 1A, H360Df - May damage the unborn child. Suspected of damaging fertility.

STOT RE 2, H373 - May cause damage to organs through prolonged or repeated exposure.

GHS09 - Environment Damaging: Aquatic Acute 1, H400 - Very toxic to aquatic life.

Aquatic Chronic 1 H410 - Very toxic to aquatic life with long lasting effects.

GHS07 – Irritant

**Signal Word:** Danger

**Hazard statements:**

Acute Tox. 4, H302 - Harmful if swallowed.

Acute Tox. 4, H332 - Harmful if inhaled.

**Precautionary statements:**

P260            Do not breathe dust/fume/gas/mist/vapors/spray.

P261            Avoid breathing dust/fume/gas/mist/vapors/spray.

P281            Use personal protective equipment as required.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information: Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Label: T; Toxic; Repr. Cat. 1, 3

**Risk phrases:**

R61: May cause harm to the unborn child.

Label: Xn; Harmful

R62-20/22: Possible risk of impaired fertility. Harmful by inhalation and if swallowed.

R33: Danger of cumulative effects.

Label: N; Dangerous for the environment.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases:**

Avoid exposure - obtain special instructions before use.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

This material and its container must be disposed of as hazardous waste.

Avoid release to the environment. Refer to special instructions/safety data sheets.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Special labeling of certain preparations:** Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.

**Health Effects:**

NFPA Hazard Rating: Health: 2; Fire: 0; Reactivity: 0

HMIS® Hazard Rating: Health: 2; Fire: 0; Reactivity: 0

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

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

Emergency overview

Appearance: Solid

Immediate effects: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**Potential health effects**

Primary Routes of entry: Eyes, ingestion, inhalation, and skin

Signs and Symptoms of Overexposure: ND

Eyes: Irritating to eyes.

Skin: Irritating to skin.

Ingestion: Harmful if swallowed.

Inhalation: Harmful by inhalation.

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**

| <b>Principle Hazardous Component(s)<br/>(chemical and common name(s))<br/>(Cas. No)</b> | <b>%</b> | <b>OSHA<br/>PEL<br/>mg/m<sup>3</sup></b> | <b>ACGIH<br/>TLV<br/>mg/m<sup>3</sup></b> | <b>NTP</b> | <b>IARC</b> | <b>OSHA<br/>regulated</b> |
|-----------------------------------------------------------------------------------------|----------|------------------------------------------|-------------------------------------------|------------|-------------|---------------------------|
| Trilead dicitrate (512-26-5)<br>EC number: 208-141-1<br>Index number: 082-001-00-6      | ND       | NE                                       | NE                                        | ND         | ND          | ND                        |

EPA Registry name: 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, lead(2+) salt (2:3).

---

**Section 4: First Aid Measures**

**If accidental overexposure is suspected**

Eye(s) Contact: Rinse opened eye for several minutes under running water.

Skin Contact: Generally the product does not irritate the skin.

Inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation

Ingestion: Immediately call a doctor.

**Note to physician**

Treatment: No further relevant information available.

Medical Conditions generally Aggravated by Exposure: No further relevant information available.

---

**Section 5: Fire Fighting Measures**

Flash Point: ND

Flammable Limits: Product is not flammable.

Auto-ignition point: Not determined.

Fire Extinguishing Media: CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special Fire Fighting Procedures: Mouth respiratory protective device.

Unusual Fire and Explosion Hazards: Product does not present an explosion hazard.

Hazardous combustion products: ND

DOT Class: Toxic

---

**Section 6: Accidental Release Measures**

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

Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water. Ensure adequate ventilation.

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: Thorough de-dusting.

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Keep respiratory protective device available. Keep receptacle tightly sealed.

Storage temperature: No special requirement.

Storage Pressure: NA

---

### **Section 8: Exposure Controls / Personal Protection**

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.

#### **Engineering Controls**

Ventilation required: Ensure good ventilation/exhaustion at the workplace.

#### **Personal Protection Equipment**

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protective gloves: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Skin protection: ND

Eye protection: Not required.

Additional clothing and/or equipment: NIF

#### **Exposure Guidelines**

See Composition/Information on Ingredients (Section 3)

---

### **Section 9 Physical and Chemical Properties**

Appearance and Physical State: Solid, powder.

Odor (threshold): Not determined.

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

Vapor Pressure (mm Hg): Not applicable.

Vapor Density (air=1): Not applicable.

Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): Not applicable.

Boiling Point: Undetermined.

Freezing point / melting point: Undetermined.

pH: Not applicable.

Solubility in Water: Not determined.

Molecular Weight: ND

---

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

Stability: No decomposition if used according to specifications.

Conditions to Avoid: No further relevant information available.

Materials to Avoid (Incompatibility): No further relevant information available.

Hazardous Decomposition Products: No dangerous decomposition products known.

Hazardous Polymerization: ND

---

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

Results of component toxicity test performed: ND

Human experience: ND

Primary irritant effect:

On the skin: No irritant effect.

On the eye: No irritating effect.

Sensitization: No sensitizing effects known.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): Repr. 1A

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:

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Ecotoxicological effects: Remark: Very toxic for fish.

Additional ecological information:

General notes: Water hazard class 3 (Self-assessment): extremely hazardous for water.

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Also, poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms

Chemical Fate Information: ND

---

### **Section 13 Disposal Considerations**

RCRA 40 CFR 261 Classification: ND

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

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: Lead compounds, soluble, n.o.s. (Trilead dicitrate)

Hazard Class: 6.1

Packaging group: III

UN Number: UN2291

IATA: Proper shipping name: Lead compounds, soluble, n.o.s. (Trilead dicitrate)

Hazard Class: 6.1

Packaging group: III

IMO: Proper shipping name: Lead compounds, soluble, n.o.s. (Trilead dicitrate)

Hazard Class: 6.1

UN Number: UN2291

Packing group: III

Marine Pollutant: No

Canadian TDG: Lead compounds, soluble, n.o.s. (Trilead dicitrate)

---

## **Section 15: Regulatory Information**

### **United States Federal Regulations**

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

SARA: Section 355 (extremely hazardous substances): Substance is not listed.

SARA Title III: Section 313 (Specific toxic chemical listings): Substance is not listed.

RCRA: ND

TSCA: Substance is listed.

CERCLA: No

### **State Regulations**

California Proposition 65:

Chemicals known to cause cancer: Substance is not listed.

Chemicals known to cause reproductive toxicity for females: Substance is not listed.

Chemicals known to cause reproductive toxicity for males: Substance is not listed.

Chemicals known to cause developmental toxicity: Substance is not listed.

Carcinogenic categories

EPA (Environmental Protection Agency): Substance is not listed.

TLV (Threshold Limit Value established by ACGIH): Substance is not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health): Substance is not listed.

OSHA-Ca (Occupational Safety & Health Administration): Substance is not listed.

A Chemical Safety Assessment has not been carried out

### **International Regulations**

Canada WHMIS: Canadian substance listings:

Canadian Domestic Substances List (DSL): Substance is listed.

Canadian Ingredient Disclosure list (limit 0.1%): Substance is not listed.

Canadian Ingredient Disclosure list (limit 1%): Substance is not listed

Europe EINECS Numbers: 208-141-1

---

## **Section 16: Other Information**

Label Information: Toxic

European Risk and Safety Phrases: See Section 2.

European symbols needed: Toxic, Harmful, Danger for environment.

Canadian WHMIS Symbols:

D1B - Toxic material causing immediate and serious toxic effects

D2A - Very toxic material causing other toxic effects

**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.