

Safety Data Sheet

Product No. 19312, 19314 Lead Citrate, Trihydrate

Issue Date (05-15-15)

Review Date (08-31-17)

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

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

Section 2: Hazard Identification

2.1 Classification of substance or mixture

GHS Pictograms



GHS08 GHS09 GHS07

GHS Categories:

GHS08 - Health Hazard

Repr. 1A

STOT RE 2

H360Df: May damage the unborn child. Suspected of damaging fertility.

H373: May cause damage to organs through prolonged or repeated exposure.

GHS09 - Environment

Aquatic Acute 1

Aquatic Chronic 1

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

GHS07 – Irritant

Acute Tox. 4

Acute Tox. 4

H302: Harmful if swallowed.

H332: Harmful if inhaled.

2.2 Label elements

Hazard Pictograms



GHS08 GHS09 GHS07

Signal Word: Danger

Hazard statements

H302+H332 Harmful if swallowed or if inhaled.

H360Df May damage the unborn child. Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long-lasting effects.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P281 Use personal protective equipment as required.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

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: 3; 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

Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL mg/m3	ACGIH TLV mg/m3	NTP	IARC	OSHA regulated
Trilead dicitrate (512-26-5) EC number: 208-141-1 Index number: 082-001-00-6	ND	NE	NE	No	No	No

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

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

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: ND

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: ND

Flammable Limits: Product is not flammable.

Auto-ignition point: Not determined.

Fire Extinguishing Media: CO₂, 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:

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: NA

Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection

Engineering Controls

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

Personal Protection Equipment

General protective and hygienic measures: 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.

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: Wear protective gloves.

Skin protection: ND

Eye protection: Not required.

Additional clothing and/or equipment: ND

Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Solid, powder.

Odor (threshold): Characteristic (ND)

Specific Gravity (H₂O=1): ND

Vapor Pressure (mm Hg): NA

Vapor Density (air=1): NA

Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): NA

Boiling Point: ND

Freezing point / melting point: ND

pH: NA

Solubility in Water: ND

Molecular Weight: ND

Section 10: Stability and Reactivity

Stability: No decomposition if used according to specifications.

Conditions to Avoid: ND

Materials to Avoid (Incompatibility): ND

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

Toxicity:

Aquatic toxicity: ND

Persistence and degradability: ND

Behavior in environmental systems:

Bioaccumulative potential: ND

Mobility in soil: ND

Ecotoxicological effects: Very toxic for fish.

Additional ecological information: 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. (Lead Citrate, Trihydrate)

Hazard Class: 6.1

Packaging group: III

UN Number: UN2291

IATA: Proper shipping name: Lead compound, Soluble, n.o.s

Hazard Class: 6.1

Packaging group: III

IMO: Proper shipping name: Lead compounds, Soluble, n.o.s. (Lead Citrate, Trihydrate)

Hazard Class: 6.1

UN Number: UN2291

Packing group: III

Marine Pollutant: Yes

Canadian TDG: Lead compounds, soluble, n.o.s. (Lead Citrate, Trihydrate)

Section 15: Regulatory Information

United States Federal Regulations

SDS 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: Substance Trilead dicitrate (512-26-5) is not listed. Lead and lead compounds are listed. **WARNING!** This product contains a chemical known to the State of California to cause cancer.

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.