

Safety Data Sheet

Product No. 19402 Phosphotungstic Acid, Reagent (PTA)

Issue Date (02-03-15)

Review Date (08-31-17)

Section 1: Product and Company Identification

Product Name: Phosphotungstic Acid, Reagent (PTA)

Synonym: Tungstophosphoric acid

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 the substance or mixture

GHS Pictograms



GHS05

2.2 Label elements

Hazard pictograms



GHS05

Signal Word: DANGER

Hazard statements:

H302 + H312 + H332

Harmful if swallowed, in contact with skin or if inhaled.

H314

Causes severe skin burns and eye damage.

Precautionary statements:

P260

Do not breathe dust, fume, gas, mist, vapors, or spray.

P264

Wash thoroughly after handling

P270

Do not eat, drink or smoke when using this product.

P280

Wear protective gloves, protective clothing, eye protection, face protection.

P301 + P330 + P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353

IF ON SKIN (or hair): Remove and take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 If exposed or concerned or you feel unwell, seek medical advice immediately.
 P405 Store locked up
 P501 Dispose of contents container in accordance with local, regional, national, and international regulations.

2.3 Other hazards

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/vPvB assessment not available as chemical safety assessment not required/not conducted.

PBT: ND

vPvB: ND

Emergency overview

Appearance: Slightly efflorescent crystals or crystalline powder. White to slightly yellow-green.

Immediate effects: Burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

Potential health effects

Primary Routes of entry: Ingestion, inhalation, eye and skin contact.

Signs and Symptoms of Overexposure: ND

Eyes: Serious eye damage.

Skin: Skin corrosion.

Ingestion: Ingestion may cause burns to the gastrointestinal system

Inhalation: Cough, Shortness of breath, Headache, Nausea, Vomiting

Chronic Exposure: ND

Chemical Listed As Carcinogen Or Potential Carcinogen: None Listed.

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 Carcinogen	IARC Carcinogen	OSHA regulated Carcinogen
Phosphotungstic acid, hydrate 12067-99-1 EC No. 215-682-7	~100	ND	1 mg(W)* TWA	No	No	No

*Listed as Tungsten soluble compounds

Synonyms: Tungstophosphoric acid

Formula: 12W0₃.H₃PO₄. xH₂O

Section 4: First Aid Measures

If accidental overexposure is suspected

Eye(s) Contact: Rinse opened eye for at least 15 minutes under running water. Assure adequate flushing by separating the eyelids with fingers. Seek immediate medical advice.

Skin Contact: Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical advice.

Ingestion: Seek immediate medical treatment.

Note to physician

Treatment: The following conditions may occur: Burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. Ingestion may cause burns to the gastrointestinal system.

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: NA

Flammable Limits: Non-flammable.

Auto-ignition point: ND

Fire Extinguishing Media: Use extinguishing media most suitable to surrounding fire conditions.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus. Wear fully protective fire-fighting equipment/clothing in fire situations.

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

Hazardous combustion products: Oxides of phosphorus and tungsten.

DOT Class: Corrosive.

Section 6: Accidental Release Measures

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

Person-related safety precautions: Wear personal protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Measures for environmental protection: Do not allow material to be released to the environment without proper governmental permits.

Measures for cleaning/collecting: Dispose of contaminated material as waste.

Additional information: Ventilate and wash spill site after material removal is complete.

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: Keep containers tightly sealed. Ensure good ventilation/exhaust at the workplace. Store away from air, water and moisture.

Do not store together with bases or oxidizing agents. Best stored under dry inert gas.

Storage temperature: Store in cool, dry conditions.

Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection

General Note: The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.

Engineering Controls

Ventilation required: Use a chemical fume hood.

Personal Protection Equipment

General protective and hygienic measures: Keep away from foodstuffs and beverages. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of work. Avoid contact with eyes and skin.

Respiratory protection: Use suitable respirator when high concentrations are present Use only NIOSH/MSHA or CEN approved dust mask type N95 or TYPE P1 (EN 143)

Protective gloves: Impervious gloves.

Skin protection: Protective work clothing sufficient to prevent contact.

Eye protection: Chemical safety goggles or full face protection as required.

Additional clothing and/or equipment: Emergency eyewash and safety shower.

Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Slightly efflorescent crystals or crystalline powder. White to slightly yellow-green color.

Odor (threshold): Odorless (ND)

Specific Gravity (H₂O=1): ND

Vapor Pressure (mm Hg): ND

Vapor Density (air=1): ND

Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): ND

Boiling point: ND

Melting point: 95 °C (203 °F)

pH: < 4 (5% solution)

Solubility in Water: Soluble

Molecular Weight: ND

Section 10: Stability and Reactivity

Stability: No decomposition if used and stored according to specifications.

Conditions to Avoid: Keep tightly sealed, avoid moisture.

Materials to Avoid (Incompatibility): Bases, water, moisture and oxidizing agents.

Hazardous Decomposition Products: Oxides of phosphorus and tungsten.

Hazardous Polymerization: Will not occur.

Dangerous reactions: No dangerous reactions known.

Section 11: Toxicological Information

Results of component toxicity test performed:

Acute toxicity: LD50/LC50 values relevant for classification:

Oral-rat LD50: 3300 mg/kg

Primary Irritant effect:

On the skin: Causes severe skin burns.

On the eye: Causes serious eye damage.

Sensitization: No sensitizing effect known.

Human experience: ND

Additional toxicological information: Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

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

Section 12: Ecological Information

Aquatic toxicity: ND

Persistence and degradability: ND

Behavior in environmental systems: ND

Bioaccumulative potential: ND

Mobility in soil: ND

Additional ecological information: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Chemical Fate Information: ND

Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: ND

Recommendation: Allow professional disposal company to handle waste. Must be specially treated under adherence 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: Corrosive solid, acidic, inorganic, n.o.s. (Phosphotungstic acid)

Hazard Class: 8

Packaging group: III

UN Number: UN3260

IATA: Proper shipping name: Corrosive solid, acidic, inorganic, n.o.s. (Phosphotungstic acid)

Hazard Class: 8

Packing group: III

UN Number: UN3260

IMO: ND

Marine Pollutant: No

Canadian TDG: Corrosive solid, acidic, inorganic, n.o.s. (Phosphotungstic acid)

Section 15: Regulatory Information

United States Federal Regulations

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

SARA: SARA 311/312 Hazards: Acute Health Hazard.

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (*de minimis*) reporting levels established by SARA Title III, Section 313.

RCRA: ND

TSCA: All components of this product are listed.

CERCLA: No

State Regulations

California Proposition 65: Not listed.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

International Regulations

Canada WHMIS: All components of this product are listed on the Canadian Domestic Substances List (DSL)

Europe EINECS Numbers: 215-682-7

Section 16: Other Information

Label Information: Corrosive

European Risk and Safety Phrases: ND

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

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.

SDS Form 0013F1V4