



Material Safety Data Sheet

Product No. 19402 Phosphotungstic Acid, Reagent

Issue Date (02-12-07)

Review Date (06-01-12)

Section 1: Product and Company Identification

Product Name: Phosphotungstic Acid, Reagent

Synonym: Tungstophosphoric Acid, PTA

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: Composition / Information on Ingredients

Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL mg/m³	ACGIH TWA mg/m³	NTP	IARC	OSHA regulated
Phosphotungstic acid, hydrate (12501-23-4) hydrate (12067-99-1) anhydrous	100	ND	1 *	No	No	No

*Listed as Tungsten soluble compounds

Section 3: Hazard Identification

Emergency overview

Appearance: White or slightly yellow-green, slightly efflorescent crystals or crystal powder.

Immediate effects: Causes severe skin burns and eye damage.

Potential health effects

Primary Routes of entry: Ingestion, inhalation

Signs and Symptoms of Overexposure: ND

Eyes: Causes eye damaged.

Skin: Moderate irritation to skin burns. Harmful if absorbed through the skin.

Ingestion: Harmful if swallowed. Ingestion may cause burns to the gastrointestinal system

Inhalation: Harmful if inhaled. Inhalation may be fatal as a result of spasm, inflammation and edema of larynx and bronchi, chemical pneumonitis and pulmonary edema.

Symptoms of exposure may include burning sensation, coughing and wheezing,

laryngitis, shortness of breath, headache, nausea and vomiting. Lung Effects: Material is extremely destructive to mucous membranes and upper respiratory tract

Chronic Exposure: ND

Chemical Listed As Carcinogen Or Potential Carcinogen: None

See Toxicological Information (Section 11)

Potential environmental effects

See Ecological Information (Section 12)

Section 4: First Aid Measures

If accidental overexposure is suspected

Eye(s) Contact: Flush with water for at least 15 minutes

Skin Contact: Flush with soap and water

Inhalation: Remove to fresh air. Get medical attention. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, only qualified personnel should administer oxygen.

Ingestion: Get medical attention. Rinse mouth out with water. Give a large amount of milk or magnesia. Never give anything by mouth to an unconscious individual.

Note to physician

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: Non-flammable.

Flammable Limits: NA

Auto-ignition point: NA

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

Special Fire Fighting Procedures: Wear SCBA

Unusual Fire and Explosion Hazards: NA

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: Avoid dusting, sweep or scoop up and place in suitable container for proper disposal. Always wear personal protective equipment.

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: Wash thoroughly after handling. Keep tightly closed.

Storage temperature: Store in a cool, dry place.

Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection

Engineering Controls

Ventilation required: Always maintain exposure below permissible exposure limits. Use only in chemical hood.

Personal Protection Equipment

Respiratory protection: Use only NIOSH/MESA approved equipment.

Protective gloves: Neoprene, Natural rubber, impervious gloves.

Skin protection: Protective clothing and gloves.

Eye protection: Goggles or face shield.

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

Exposure Guidelines

See Composition/Information on Ingredients (Section2)

Section 9 Physical and Chemical Properties

Appearance and Physical State: White or slightly yellow-green, slightly efflorescent crystals or crystal powder

Odor (threshold): None

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

Freezing point / melting point: 89 ° C

pH: ND

Solubility in Water: 200 g / 100 ml

Molecular Weight: 2880.20 (anhydrous)

Section 10: Stability and Reactivity

Stability: Stable.

Conditions to Avoid: Heat. Contact with incompatibles.

Materials to Avoid (Incompatibility): Strong bases, strong oxidizers, reducing agents.

Hazardous Decomposition Products: Oxides of phosphorus and tungsten.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Results of component toxicity test performed: Oral, Rat LD50: 3300mg/Kg.

Human experience: ND

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

Section 12: Ecological Information

Ecological Information: ND

Chemical Fate Information: ND

Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: ND

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, hydrate)

Hazard Class: 8

Packaging group: II

UN Number: UN3260

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

Hazard Class: 8

Packing group: II

UN Number: UN3260

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

Class: 8

UN Number: UN3260

Marine Pollutant: No

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

Section 15: Regulatory Information

United States Federal Regulations

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

SARA: None

SARA Title III: Section 302: None. Section 313: None

RCRA: ND

TSCA: CAS# 12501-23-4 is not on the TSCA Inventory because it is a hydrate. It is considered listed if the CAS number for the anhydrous form (12067-99-1) is on the inventory (40CFR720.3 (u) (2)). Section 12 B: None are listed.

CERCLA: None

State Regulations

California Proposition 65: None

International Regulations

Canada WHMIS: Classification e. None listed on the DSL or NDSL

Europe EINECS Numbers:

Section 16: Other Information

Label Information: Corrosive

European Risk and Safety Phrases: Causes burns. In case of contact with eyes, rinse immediately with plenty of water and seek medical help. Wear suitable protective

clothing, gloves and eye /face protection. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)

European symbols needed: Corrosive

Canadian WHMIS Symbols: Corrosive

HMIS® Hazard Rating (Estimated): Health: **3**; Flammability: **0**; Physical: **0**

NFPA Hazard Rating (Estimated): Health: **3**; Flammability: **0**; Instability: **0**

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

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.