



Registered Off. : 101-A, Deep Enclave, Pocket 'D', Ashok Vihar, Phase-III, Delhi-110 052 (India)
Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)
Works : Plot No.1022, Modern Industrial Estate, Bahadurgarh-124507, Haryana (India)
Telephone : 0091 - 11 - 23646422 E-mail : tecpharm@gmail.com
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PHOSPHOTUNGSTIC ACID

1. Product Identification

Synonyms : Tungstophosphoric acid hydrate; Dodeca-Tungstophosphoric acid hydrate

CAS No. : 12501-23-4

Molecular Weight: 2880.17

Chemical Formula: $H_3PO_{40}W_{12}.xH_2O$

Product Code: 32536

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Phosphotungstic Acid	12501-23-4	99 - 100%

3. Hazards Identification

Potential health effects

Eye: Contact may cause ulceration of the conjunctiva and cornea.

Skin: May be harmful if absorbed through the skin.

Ingestion: Causes severe pain, nausea, vomiting, diarrhea, and shock. May be harmful if swallowed.

Inhalation: Causes chemical burns to the respiratory tract. May be harmful if inhaled.

Chronic: No information found.

4. First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Notes to Physician: Treat symptomatically and supportively.

5. Fire Fighting Measures

Fire: Not considered a fire hazard

Explosion: Not considered a explosion hazard.

Fire Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.



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6. Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

7. Handling and Storage

Handling: Wash thoroughly after handling. Minimize dust generation and accumulation. Keep container tightly closed. Do not get on skin or in eyes. Do not ingest or inhale. Use only in a chemical fume hood.

Storage: Keep away from heat and flame. Keep container closed when not in use. Store in a cool, dry area away from incompatible substances.

8. Exposure Controls/Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Phosphotungstic acid hydrate	5 mg/m ³ TWA (as W)	5 mg/m ³ TWA (as W)	none listed

OSHA Vacated PELs: Phosphotungstic acid hydrate: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

9. Physical and Chemical Properties

Physical State: Crystals

Appearance: white to cream

Odor: Not available.

pH: Not available.

Vapor Pressure : Not available.

Vapor Density : Not available.

Evaporation Rate : Not available.

Viscosity : Not available.

Boiling Point: Not available.

Freezing/Melting Point : 0 deg C

Decomposition Temperature: Not available.

Solubility: soluble

Specific Gravity/Density: Not available.

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10. Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: High temperatures, dust generation.

Incompatibilities with Other Materials: Strong bases, strong oxidizing agents.

Hazardous Decomposition Products: Phosphine, carbon monoxide, oxides of phosphorus, carbon dioxide.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

CAS# 12501-23-4 unlisted.

LD50/LC50:

Not available.

Carcinogenicity:

CAS# 12501-23-4: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found

Teratogenicity: No information found

Reproductive Effects: No information found

Mutagenicity: No information found

Neurotoxicity: No information found

12. Ecological Information

Ecotoxicity : No data available. No information available.

Environmental: No information available.

13. Disposal Considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not Regulated.

15. Regulatory Information

Safety, health and environmental : Ensure all national/local regulations are observed.
regulations/legislation specific for the substance or mixture

REACH Restrictions : The components of this product are not subject to restrictions.

REACH Authorisation : The components of this product are not subject to authorization.

Chemical Safety Assessment : It has not been carried out.

16. Other Information

Product Use:

Laboratory Reagent.