



Medical Chemical Corp.

19430 Van Ness Ave.

Torrance, CA 90501

Customer Service: Phone (310)787-6800

FAX (310)787-4464

CHEMTREC Emergency Response Telephone Number: (800)424-9300

Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

Section I - Product Identification

An aqueous solution of phosphomolybdic acid and phosphotungstic acid.

Section II - Hazards Identification

Overview: May be harmful if swallowed. May be irritating to skin eyes and respiratory tract.

Safety Ratings

Health: Hazardous Flammability: None Reactivity: Slight Contact: Slight

Recommended safety equipment: safety goggles, lab coat and proper gloves

Storage: General storage

NFPA Ratings

Health = 2 Flammability = 0 Reactivity = 0



Potential Health Effects

The toxicology of this compound have not been completely examined. It is presumed that the toxicity of this item is similar to other heavy metals.

Inhalation: Irritating and corrosive to respiratory tract.

Ingestion: Tungstates and molybdates are corrosive to human tissue. Ingestion will damage esophagus, mouth and stomach. Large doses may cause nausea, vomiting, diarrhea, etc.

Skin contact: Brief contact will cause discoloration and exfoliation. Prolonged contact will cause ulceration.

Eye contact: Brief contact will cause chemical burns that may permanently affect vision.

Chronic Exposure: Unknown

Aggravation of preexisting conditions: Unknown

Section III - Composition/Information on Components

Ingredients	CAS#	OSHA PEL	ACGIH TLV	%
Phosphomolybdic Acid	12026-57-2	5 mg/m ³ as Mo	0.5 mg/m ³ as Mo	2.5% v/v
Phosphotungstic acid	12067-99-1	1 mg/m ³ as W	3 mg/m ³ (STEL) as W	2.5% w/v

Section IV - First Aid Measures

Inhalation: Unlikely to be a problem. Remove from source of exposure and get medical attention for any breathing difficulty.

Ingestion: Do not induce vomiting. If the victim is conscious, administer large amounts of fluids. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Skin Contact: Wash affected area with soap and water. Get medical advice if irritation develops.

Eye Contact: Rinse thoroughly with running water. Get medical attention.

Section V - Fire Fighting Measures

Fire: Not normally a fire Hazard,

Explosion: Not Normally an explosion hazards.

Fire Extinguishing Media: Any means suitable for surrounding fire.

Special information: Pyrolysis will release corrosive oxides.

Section VI - Accidental Release Measures

Absorb with a suitable absorbent (such as paper towels) and store in a suitable container for disposal. Waste disposal is usually not restricted but local ordinances vary. Insure compliance with all government regulations.

Section VII - Handling and Storage

Store in a closed container, protected from freezing.

Section VIII - Exposure Control/Personal Protection

Airborne Exposure Limits: See section III.

Ventilation System: Usually not required. When required, Refer to the ACGIH document, "Industrial Ventilation, a Manual of Recommended Practices" for details about ventilation.

Personal Respirator: Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.

Skin protection: Protective gloves are recommended as part of good laboratory practice.

Eye Protection: Laboratory safety goggles or similar products are recommended as part of good laboratory practice.

Section IX - Physical and Chemical Properties

Boiling Point: 100°C

Vapor pressure (mm Hg): 18 @ 20°C

Vapor Density (air = 1): 0.6

Appearance and Odor: A clear solution with little odor.

Density: About 1.0 g/ml

Evaporation Rate (water = 1): 1

Solubility: Infinitely miscible with water

Section X - Stability and Reactivity

Stability: Freezes at low temperature.

Hazardous Decomposition Products: Nothing unusual.

Hazardous polymerization: Will not occur.

Incompatibilities: Nothing unusual.

Conditions to avoid: Excessive cold/heat and light.

Section XI - Toxicological Information

None relating to normal exposure.

Cancer lists

<u>Ingredient</u>	<u>Known Carcinogenicity?</u>	<u>NTP?</u>	<u>Anticipated?</u>	<u>IARC Category</u>
Phosphomolybdic acid	no	no	no	none
Phosphotungstic acid	no	no	no	none

Section XII - Ecological Information

Environmental Fate: Unknown

Environmental Toxicity: Unknown

Section XIII - Disposal Considerations

Local governments have wide latitude to restrict the amounts of heavy metals that may be flushed down the drain. Insure compliance with all government regulations.

Section XIV - Transportation information

Not regulated.

Section XV - Regulatory Information

Chemical Inventory Status

<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>
Phosphomolybdic acid	Yes	Yes
Phosphotungstic acid	Yes	Yes

Federal, State and International Regulations

<u>Ingredient</u>	<u>SARA 302</u>		<u>SARA 313</u>		<u>RCRA</u>	<u>TSCA</u>	<u>Ca. Prop 65</u>
	<u>RQ</u>	<u>TPQ</u>	<u>List</u>	<u>Category</u>	<u>261.33</u>	<u>8(D)</u>	
Phosphomolybdic acid	No	No	No	No	No	No	No
Phosphotungstic acid	No	No	No	No	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312: Acute: Yes, Chronic: No, Flammable: No

Section XVI - Other Information

This information is believed to be correct but is not warranted as such, nor does it purport to be all inclusive.

Revision Date: Apr. 21, 2014