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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

Danger: Causes severe skin burns and eye damage. Wash thoroughly after handling. Wear protective clothing, eye and face protection. If swallowed, rinse mouth with water but do not induce vomiting. Immediately contact a poison control center. Remove contaminated clothing and wash before reuse. Rinse skin with water.

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 PeI	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. Dispose of contents and container in accordance 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: May 5, 2015