

Section 1. Product and Company Identification

Item Number.: s254-1
 Common Name.: Phosphotungstic Acid Hematoxylin (PTAH)
 Intended Use : In Vitro Diagnostic use. Laboratory Use Only
 IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300

Manufacturer.: Poly Scientific R&D Corp.

70 Cleveland Ave
 Bay Shore NY 11706

polyrnd@polyrnd.com

Section 2. Hazard Identification

314 Skin corrosion/irritation Cat 1A, B, C



Danger

Causes severe skin burns and eye damage

Do not breathe dust or mist. Wash hands/skin thoroughly after handling.

Wear protective gloves/ protective clothing/ eye protection/ face

protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated

clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. IF IN

EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise covered by GHS: None

Section 3. Composition Information

Exposure Limits(A blank value indicates no information available) The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Component	CAS#	PEL(mg/m3)	STEL(mg/m3)	CEIL(mg/m3)	Concentration Range
Potassium Permanganate	7722-64-7		5.00		0-5%
Phosphotungstic Acid	12501-23-4				0-5%
Hematoxylin	517-28-2				0-5%

Section 4. First Aid Measures

Eye Contact : Check for and remove contact lenses. Wash with large amounts of water for 15 minutes. Seek medical attention.

Skin Contact : Remove contaminated clothing and shoes. Wash the affected area with large with soap and water. Seek medical attention

Ingestion : Give two glasses of water to a conscious victim. Do not induce vomiting. Seek medical attention

Inhalation : Move person to fresh air. If necessary give CPR; warning this could pose a risk of exposure to the rescue breather. Seek medical attention

The most important known symptoms and effects are described in section 2 and/or section 11.

Section 5. Fire Fighting Measures

Extinguishing Media.: Dry Chemical, Carbon Dioxide, Alcohol Foam, Carbon Dioxide

Special Fire and Explosion Remarks ...: N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special ...: Pick up spill with absorbent vermiculite

Spill Cleanup.: Take up spills with absorbant material and containerize for proper disposal. Use proper PPE as per section 8. Provide ventilation.

Section 7. Handling and Storage

Storage and Handling Special...: N/A

Storage and handling.: Keep container tightly closed. Store in a cool, dry area and protect from physical damage

Section 8. Exposure Controls/Personal Protection

Personal Protective Equipment ...: Safety Glasses, Gloves, Synthetic Apron

This information is provided as a guide but proper PPE can only be determined by the end user and their situation.

Engineering Controls.: Provide local exhaust ventilation to keep the airborne concentrations of vapors below their respective threshold limit values. Ensure that eyewash stations and safety showers are local to the work-station.

Section 9. Physical and Chemical Properties

Appearance.....: Colorless liquid	Evaporation Rate.....: N/A	Water Soluable?.....: Yes
Odor.....: N/A	Upper Flammability Limit (%): N/A	Volatile Percent.....: N/A
Odor Threshold.....: N/A	Lower Flammability Limit (%): N/A	Partition Coefficient.....: n-octanol/water: N/A
pH.....: N/A	Specific Gravity (@20C).....: N/A	Auto Ignition Temp.....: N/A
Melting Point.....: N/A	Vapor Pressure (mm Hg).....: N/A	Decomposition Temp.....: N/A
Boiling Point.....: N/A	Vapor Density (Air=1).....: N/A	Viscosity.....: N/A
Flash Point (F) TCC.....: N/A	Relative Density.....: N/A	

Section 10. Stability and reactivity

Special Remarks on Stability...: Stable

Special Remarks on Reactivity...: N/A

Water Reactive.: No

Section 11. Toxicological Information

Routes of Entry.: Inhalation, Skin Absorption, Ingestion

Animal Toxicity.: Hematoxylin: Acute Oral (TDLO) 400 gm/kg (Rat); Potassium Permanganate: Acute Oral (LD50) 1090 mg/kg (Rat) Subcutaneous (LD50) 50 mg/kg (Mouse); Phosphotungstic Acid: Acute Oral (LD50) 3300 mg/kg (Rat)

Human Toxic Effects.: Target Organs: respiratory system, central nervous system, blood, kidneys, eyes, skin,

Potential Acute Health Effects...: Hazardous in case of inhalation, eye contact, skin contact, ingestion

Potential Chronic Health Effects...: Repeated or prolonged exposure to the substance can produce target organs damage

Section 12. Ecological Information

Ecological Information.: N/A

Section 13. Disposal Considerations

Waste Disposal.: Dispose of in accordance with local, state and federal laws.

Section 14. Transport Information

DOT Identification.: Non Hazardous

Section 15. Regulatory Information

State Regulations.: New York release reporting list: Potassium Permanganate

Component	CAS#	Sara Section 311 Reporting								CERCLA	RCRA
		Acute	Chronic	Fire	Pressure	Reactive	SARA302	SARA313			
Potassium Permanganate	7722-64-7	No	No	No	No	No	No	No	Yes	No	
Phosphotungstic Acid	12501-23-4	No	No	No	No	No	No	No	No	No	
Hematoxylin	517-28-2	No	No	No	No	No	No	No	No	No	

Section 16. Other Information

Review Date : 3/14/2023

Reviewed by : Admin

MSDS Group Id.: 94

Notice: This SDS applies only to the material as packaged. If the material is altered by any means it may pose risks not mentioned here. It is the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use.

While this SDS is based on reliable technical data, Poly Scientific R&D Corp. assumes no responsibility for the completeness or accuracy of the information contained herein.

Section 1. Product and Company Identification

Item Number.: s294-1
 Common Name.: Zenker Fluid Modified Contains Zinc Chloride
 Intended Use : In Vitro Diagnostic use. Laboratory Use Only
 IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300

Manufacturer.: Poly Scientific R&D Corp.

70 Cleveland Ave
 Bay Shore NY 11706

polyrnd@polyrnd.com

Section 2. Hazard Identification

272 Oxidising liquids; Oxidising solids Cat 2
 301 Acute toxicity, oral Cat 3
 314 Skin corrosion/irritation Cat 1A, B, C
 330 Acute toxicity, inhalation Cat 1, 2
 340 Germ cell mutagenicity Cat 1A, 1B
 350 Carcinogenicity Cat 1A, 1B
 360 Reproductive toxicity Cat 1A, 1B
 370 Specific target organ toxicity, single exposure Cat 1

**Danger**

May intensify fire; Oxidizer. Toxic if swallowed. Causes severe skin burns and eye damage. Fatal if inhaled. May cause genetic defects. May cause cancer. May damage fertility or the the unborn child. Causes damage to organs.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces/clothing/combustible materials. -No smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands/skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Do not get in eyes or on skin/clothing. In case of inadequate ventilation wear respiratory protection. Keep container tightly closed, locked up in well ventilated-area and cool. Keep/store away from clothing/combustible materials. Take precaution to avoid mixing with combustibles. In case of fire: Use water to extinguish. Do not used dry chemicals or foams for extinction. CO2 or Halon may provide limited control. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do not induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash skin with soap/water/shower. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. If exposed: Call a POISON CENTER or doctor/physician. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If having respiratory symptoms: Immediately call a POISON CENTER or doctor/physician. Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise covered by GHS: None

Section 3. Composition Information

Exposure Limits(A blank value indicates no information available) The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Component	CAS#	PEL(mg/m3)	STEL(mg/m3)	CEIL(mg/m3)	Concentration Range
Zinc Chloride	7646-85-7	2.00	1.00		0-5%
Potassium Dichromate	7780-50-9		0.05		0-5%

Section 4. First Aid Measures

Eye Contact : Check for and remove contact lenses. Wash with large amounts of water for 15 minutes. Seek medical attention.

Skin Contact : Remove contaminated clothing and shoes. Wash the affected area with large with soap and water. Seek medical attention

Ingestion : Give two glasses of water to a conscious victim. Do not induce vomiting. Seek medical attention

Inhalation : Move person to fresh air. If necessary give CPR; warning this could pose a risk of exposure to the rescue breather. Seek medical attention

The most important known symptoms and effects are described in section 2 and/or section 11.

Section 5. Fire Fighting Measures

Extinguishing Media.: Dry Chemical, Carbon Dioxide, Water Spray, or Foam

Special Fire and Explosion Remarks.: N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special.: Pick up spill with absorbent vermiculite

Spill Cleanup.: Take up spills with absorbant material and containerize for proper disposal. Use proper PPE as per section 8. Provide ventilation.

Section 7. Handling and Storage

Storage and Handling Special.: N/A

Storage and handling.: Keep container tightly closed. Store in a cool, dry area and protect from physical damage

Section 8. Exposure Controls/Personal Protection

Personal Protective Equipment.: Safety Glasses, Gloves, Vapor Respirator

This information is provided as a guide but proper PPE can only be determined by the end user and their situation.

Engineering Controls.: Provide local exhaust ventilation to keep the airborne concentrations of vapors below their respective threshold limit values. Ensure that eyewash stations and safety showers are local to the work-station.

Section 9. Physical and Chemical Properties

Appearance.....: Clear red orange liquid	Evaporation Rate.....: N/A	Water Soluable?.....: Yes
Odor.....: N/A	Upper Flammability Limit (%): N/A	Volatile Percent.....: N/A
Odor Threshold.....: N/A	Lower Flammability Limit (%): N/A	Partition Coefficient.....: n-octanol/water: N/A
pH.....: N/A	Specific Gravity (@20C).....: N/A	Auto Ignition Temp.....: N/A
Melting Point.....: N/A	Vapor Pressure (mm Hg).....: N/A	Decomposition Temp.....: N/A
Boiling Point.....: N/A	Vapor Density (Air=1).....: N/A	Viscosity.....: N/A
Flash Point (F) TCC.....: N/A	Relative Density.....: N/A	

Section 10. Stability and reactivity

Special Remarks on Stability...: Stable

Special Remarks on Reactivity...: N/A

Water Reactive.: No

Section 11. Toxicological Information

Routes of Entry.: Inhalation, Skin Absorption, Ingestion

Animal Toxicity.: Potassium Dichromate: Acute Oral (LD50) 190 mg/kg (Mouse); Sodium Sulfate: Acute Oral (LD50) 5989 mg/kg (Mouse); Zinc Chloride: Acute Oral (LD50) 350 mg/kg (Rat)

Human Toxic Effects.: Target Organs: Respiratory System, Eyes, Liver, Kidneys, Skin, GI System, GI Tracts

Potential Acute Health Effects...: Hazardous in case of inhalation, eye contact, skin contact, ingestion

Potential Chronic Health Effects...: Potassium Dichromate: NTP Code 1

Section 12. Ecological Information

Ecological Information.: N/A

Section 13. Disposal Considerations

Waste Disposal.: Dispose of in accordance with local, state and federal laws.

Section 14. Transport Information

DOT Identification.: UN1840, Zinc Chloride Solution, 8, III

Section 15. Regulatory Information

State Regulations.: New York release reporting list: Zinc Chloride

Component	CAS#	Sara Section 311 Reporting						SARA302	SARA313	CERCLA	RCRA
		Acute	Chronic	Fire	Pressure	Reactive					
Zinc Chloride	7646-85-7	No	No	No	No	No	No	Yes	Yes	No	
Potassium Dichromate	7780-50-9	No	No	No	No	No	No	Yes	Yes	No	

Section 16. Other Information

Review Date : 3/14/2023

Reviewed by : Admin

MSDS Group Id.: 121

Notice: This SDS applies only to the material as packaged. If the material is altered by any means it may pose risks not mentioned here.

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