

**Potassium Permanganate Counterstain**

Printed: 02/26/2025

Revision: 02/28/2025

Supersedes Revision: 06/15/2020

This SDS complies with the US OSHA HCS 2012.

**1. Product and Company Identification**

**Product Code:** 0003529  
**Product Name:** Potassium Permanganate Counterstain  
**Company Name:** CalibreScientific US, Inc. **Phone Number:**  
 1311 SE Cardinal Ct Suite 170 1 (360)260-2779  
 Vancouver, WA 98683  
**Web site address:** Alphatecsystems.com  
**Email address:** Regulatory@calibrescientific.com  
**Emergency Contact:** INFOTRAC  
 International 00-1- (352)323-3500  
**Information:** North America 1 (800)535-5053  
**Intended Use:** For Laboratory Use: Biological Staining  
**Product List** Potassium Permanganate Counterstain, Also applies to Product Code: 0003527S, 0003529C, 0003565, 0003568.

**2. Hazards Identification**

**Aquatic Toxicity (Acute), Category 3**  
**Aquatic Toxicity (Chronic), Category 3**

**GHS Signal Word:** None  
**GHS Hazard Phrases:** H402 - Harmful to aquatic life.  
 H412 - Harmful to aquatic life with long lasting effects.  
**GHS Precautionary Phrases:** P273 - Avoid release to the environment.  
**GHS Response Phrases:** No phrases apply.  
**GHS Storage and Disposal Phrases:** P501 - Dispose of contents/container to safe area in accordance with state and local guidelines.  
**Potential Health Effects (Acute and Chronic):** See section 11 for additional Toxicological information.  
**Inhalation:** May be harmful if inhaled.  
**Skin Contact:** May cause skin irritation.  
**Eye Contact:** May cause eye irritation and possible damage.  
**Ingestion:** May be harmful if swallowed.

**3. Composition/Information on Ingredients**

CAS #	Hazardous Components (Chemical Name)	Concentration
7722-64-7	Potassium permanganate {Permanganic acid, potassium salt; Acetoacet-para-phenetide; Purple salt }	1090. -4990. PPM

### 4. First Aid Measures

**Emergency and First Aid Procedures:**

**In Case of Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult.

**In Case of Skin Contact:** Wash with plenty of soap and water. If skin irritation or rash occurs, seek medical advice/attention.

**In Case of Eye Contact:** Rinse cautiously with water for several minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers.

**In Case of Ingestion:** Do NOT induce vomiting. Call a physician immediately.

**Note to Physician:** Treat symptomatically and supportively.

### 5. Fire Fighting Measures

**Flash Point:** NP Method Used: Estimate

**Explosive Limits:** LEL: No data. UEL: No data.

**Autoignition Pt:** NP

**Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

**Fire Fighting Instructions:** Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Flammable Properties and Hazards:** Keep away from flames and hot surfaces.

**Hazardous Combustion Products:** No data available.

### 6. Accidental Release Measures

**Protective Precautions, Protective Equipment and Emergency Procedures:** Wear appropriate protective clothing to prevent skin exposure.

**Environmental Precautions:** Avoid release to the environment.

**Steps To Be Taken In Case Material Is Released Or Spilled:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

### 7. Handling and Storage

**Precautions To Be Taken in Handling:** Good laboratory practices, safety procedures, and normal precautions in handling and storage of all products are recommended to provide adequate protection to the skilled laboratory professional.

**Precautions To Be Taken in Storing:** Keep away from sources of ignition. Keep away from acids. Keep container tightly closed in a dry and well-ventilated place.

### 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7722-64-7	Potassium permanganate {Permanganic acid, potassium salt; Acetoacet-para-phenetide; Purple salt }	CEIL: 5 mg/m3	TLV: TWA: 0.2 mg/m^3	No data.

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<b>Respiratory Equipment (Specify Type):</b>	Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
<b>Eye Protection:</b>	Wear chemical splash goggles.
<b>Protective Gloves:</b>	Wear appropriate protective gloves to prevent skin exposure.
<b>Other Protective Clothing:</b>	Where splashing is possible, full chemically resistant protective clothing (e.g. acid suit) and boots are required.
<b>Engineering Controls (Ventilation etc.):</b>	Use with adequate ventilation.
<b>Work/Hygienic/Maintenance Practices:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before reuse. Use caution when handling glass to avoid breakage and injury.
<b>Environmental Exposure Controls:</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

**9. Physical and Chemical Properties**

<b>Physical States:</b>	<input type="checkbox"/> Gas <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid
<b>Appearance and Odor:</b>	Violet. Odorless.
<b>pH:</b>	No data.
<b>Melting Point:</b>	NA
<b>Boiling Point:</b>	100.00 C / 0.0 mm Hg
<b>Flash Point:</b>	NP Estimate
<b>Evaporation Rate:</b>	No data.
<b>Flammability (solid, gas):</b>	No data available.
<b>Explosive Limits:</b>	LEL: No data.                      UEL: No data.
<b>Vapor Pressure:</b>	No data.
<b>Vapor Density (vs. Air=1):</b>	No data.
<b>Specific Gravity (Water=1):</b>	1.000
<b>Solubility in Water:</b>	No data.
<b>Saturated Vapor Concentration:</b>	No data.
<b>Octanol/Water Partition Coefficient:</b>	No data.
<b>Autoignition Pt:</b>	NP
<b>Decomposition Temperature:</b>	No data.
<b>Viscosity:</b>	No data.

**10. Stability and Reactivity**

**Reactivity:** Strong oxidizing agents.  
**Stability:** Unstable [ ] Stable [ X ]  
**Conditions To Avoid - Instability:** Excess heat.  
**Incompatibility - Materials To Avoid:** Strong oxidants.  
**Hazardous Decomposition or Byproducts:** Carbon dioxide, Carbon monoxide.  
**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]  
**Conditions To Avoid - Hazardous Reactions:** No data available.

**11. Toxicological Information**

**Toxicological Information:** No information available.  
 CAS# 7722-64-7: Potassium permanganate {Permanganic acid, potassium salt; Acetoacet-para-phenetide; Purple salt }:  
 Acute toxicity, LD50, Oral, Rat, 750.0 MG/KG.  
 Result:  
 Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels: Other enzymes.  
 - American Industrial Hygiene Association Journal., AIHA, 475 Wolf Ledges Pkwy., Akron, OH 44311, Vol/p/yr: 30,470, 1969  
**Irritation or Corrosion:** No information available.  
**Symptoms related to Toxicological Characteristics:** No information available.  
**Chronic Toxicological Effects:** No information available.  
**Carcinogenicity:** NTP? No IARC Monographs? No OSHA Regulated? No

**12. Ecological Information**

**General Ecological Information:** Do not empty into drains.  
**Results of PBT and vPvB assessment:** No information available.  
**Persistence and Degradability:** No information available.  
**Bioaccumulative Potential:** No information available.  
**Mobility in Soil:** No information available.

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**13. Disposal Considerations**

**Waste Disposal Method:** Observe all federal, state, and local environmental regulations. To be performed in compliance with all current, local, regional and country regulations. Contact a licensed professional waste disposal service to dispose of this material. Wear protective gloves/protective clothing/eye protection/face protection.

**14. Transport Information**

**GHS Classification:** Aquatic Toxicity (Acute), Category 3 - Harmful to aquatic life  
Aquatic Toxicity (Chronic), Category 3 - Harmful to aquatic life with long lasting effects

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Not Regulated.

**DOT Hazard Class:**

**UN/NA Number:**

**LAND TRANSPORT (Canadian TDG):**

**TDG Shipping Name:** Not Regulated.

**UN Number:**

**Hazard Class:**

**TDG Classification:**

**LAND TRANSPORT (European ADR/RID):**

**ADR/RID Shipping Name:** Not Regulated.

**UN Number:**

**Hazard Class:**

**AIR TRANSPORT (ICAO/IATA):**

**ICAO/IATA Shipping Name:** Not Regulated.

**UN Number:**

**Hazard Class:**

**Packing Group:**

**15. Regulatory Information**

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7722-64-7	Potassium permanganate {Permanganic acid, potassium salt; Acetoacet-para-phenetide; Purple salt }	No	Yes NA	Yes-Cat. N450

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
7722-64-7	Potassium permanganate {Permanganic acid, potassium salt; Acetoacet-para-phenetide; Purple salt }	CA PROP.65: No; MA Oil/HazMat: Yes; NJ EHS: Yes - Cat.; PA HSL: Yes - E

**16. Other Information**

**Revision Date:** 02/28/2025 **Previous revision:** 06/15/2020

**Preparer Name:** A.Frontella

**Additional Information About This Product:** No data available.

**Document & Change Control Number** SDS0085.H.

**Company Policy or Disclaimer:** Disclaimer

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