

### 1. Product and Company Identification

**Product Code:** 0003529

**Product Name:** Potassium Permanganate Counterstain

**Company Name:** Alpha-Tec Systems, Inc. **Phone Number:** 1 (360)260-2779  
 1311 SE Cardinal Ct Suite 170  
 Vancouver, WA 98683

**Web site address:** Alphatecsystems.com

**Email address:** Regulatory@Alphatecsystems.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	RTECS #
7722-64-7	Potassium permanganate {Permanganic acid, potassium salt; Acetoacet-para-phenetide; Purple salt }	1090. -4990. PPM	SD6475000

### 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 Pt:** 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/m <sup>3</sup>	TLV: TWA: 0.2 mg/m <sup>3</sup>	No data.

<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>	[ ] Gas    [ X ] Liquid    [ ] 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 (212.0 F)	
<b>Flash Pt:</b>	NP    Method Used: 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 (vs. Air or mm Hg):</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>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

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

### 11. Toxicological Information

<b>Toxicological Information:</b>	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
<b>Irritation or Corrosion:</b>	No information available.
<b>Symptoms related to Toxicological Characteristics:</b>	No information available.
<b>Chronic Toxicological Effects:</b>	No information available.

### 12. Ecological Information

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

### 13. Disposal Considerations

<b>Waste Disposal Method:</b>	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.
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### 14. Transport Information

<b>GHS Classification:</b>	Aquatic Toxicity (Acute), Category 3 - Harmful to aquatic life Aquatic Toxicity (Chronic), Category 3 - Harmful to aquatic life with long lasting effects	
<b>LAND TRANSPORT (US DOT):</b>		
<b>DOT Proper Shipping Name:</b>	Not Regulated.	
<b>DOT Hazard Class:</b>		
<b>UN/NA Number:</b>		
<b>LAND TRANSPORT (Canadian TDG):</b>		
<b>TDG Shipping Name:</b>	Not Regulated.	
<b>UN Number:</b>		
<b>Hazard Class:</b>		<b>TDG Classification:</b>
<b>LAND TRANSPORT (European ADR/RID):</b>		
<b>ADR/RID Shipping Name:</b>	Not Regulated.	
<b>UN Number:</b>		
<b>Hazard Class:</b>		

**AIR TRANSPORT (ICAO/IATA):**
**ICAO/IATA Shipping Name:** Not Regulated.

**UN Number:**
**Packing Group:**
**Hazard Class:**

### 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 100 LB	Yes-Cat. N450

**This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:**

<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Explosive	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Acute toxicity (any route of exposure)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Flammable (gases, aerosols, liquid, or solid)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Skin Corrosion or Irritation
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Oxidizer (liquid, solid or gas)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Serious eye damage or eye irritation
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Self-reactive	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Respiratory or Skin Sensitization
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pyrophoric (liquid or solid)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Germ cell mutagenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pyrophoric gas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Carcinogenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Self-heating	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Reproductive toxicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Organic peroxide	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Specific target organ toxicity (single or repeated exposure)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Corrosive to metal	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Aspiration Hazard
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Gas under pressure (compressed gas)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Simple Asphyxiant
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No In contact with water emits flammable gas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Health) Hazard Not Otherwise Classified (HNOC)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Combustible Dust	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Physical) Hazard Not Otherwise Classified (HNOC)	

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:** 06/15/2020

**Preparer Name:** Tim Meehan

**Additional Information About** No data available.

**This Product:**
**Document & Change Control** SDS0085.G CC20-055.

**Number**
**Company Policy or** Disclaimer

**Disclaimer:** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.