**1. Identification**

**Product Name:** Potassium Permanganate, 1%

**Synonyms:** N/A

**Recommended Use:** N/A

**Manufacturer/Supplier:**
Avantik Biogroup
32 Commerce Street
Springfield, NJ 07081
1-888-392-8411

**In Case of Emergency:**
Chemtrec US 1-800-424-9300
Chemtrec International 703-527-3887

---

**2. Hazards Identification**

**OSHA Hazard Classification(s):**
No OSHA Hazard Classifications Applicable

**Signal Word:** N/A

**Hazard Statement(s):** N/A

**Pictogram(s):** N/A

**Precautionary Statement(s):**

- **Prevention:** N/A
- **Response:** N/A
- **Storage:** N/A
- **Disposal:** N/A
- **Descriptions of Hazards not otherwise classified:** N/A
- **Percent of mixture with unknown acute toxicity:** N/A

---

**3. Composition and Information on Ingredients**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Common Name</th>
<th>CAS #</th>
<th>Concentration %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td></td>
<td>7732-18-5</td>
<td>99</td>
</tr>
<tr>
<td>Potassium Permanganate</td>
<td></td>
<td>7722-64-7</td>
<td>1</td>
</tr>
</tbody>
</table>

---

**4. First Aid Measures**

- **Eye Contact:** Flush eyes with water as a precaution.
- **Skin Contact:** Wash off with plenty of water. Remove contaminated clothing and launder before reuse as a precaution.
- **Inhalation:** Move person to fresh air; give artificial respiration if breathing has stopped.
- **Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention if discomfort occurs.
- **Symptoms:** N/A
- **Recommendations for immediate medical care/special treatment:** If exposure by any route causes irritation get medical advice/attention.

---

**5. Fire- Fighting Measures**

- **Extinguishing Media:** Dry chemical, carbon dioxide, alcohol foam.
- **Fire Hazards (Chemical):** Not flammable.
- **Special Protective Equipment:** Fire fighters should use self-contained breathing apparatus and protective clothing.
- **Precautions for Firefighters:** Fire fighters should use self-contained breathing apparatus and protective clothing.

---

**6. Accidental Release Measures**

**Emergency Procedures:** Evacuate the area of all unnecessary personnel. Wear suitable protective equipment. Eliminate all...
Potassium Permanganate, 1%

sources of ignition and provide ventilation.

Protective Equipment: See section 8

Environmental Precautions: Prevent release to the environment by using barriers.


7. Handling and Storage

Handling: Do not breathe vapors. Do not eat, drink or smoke when using this product.


8. Exposure Controls/Personal Protection

OSHA Permissible Exposure Limits (PELs):

<table>
<thead>
<tr>
<th>Reagent</th>
<th>CAS #</th>
<th>OSHA PEL TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ACGIH Threshold Limit Values (TLVs):

<table>
<thead>
<tr>
<th>Reagent</th>
<th>CAS #</th>
<th>ACGIH PEL TLV</th>
<th>ACGIH STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Engineering Controls: Use in a well ventilated area to prevent exposure. Maintain eyewash fountain and quick-drench facilities in work areas.

Personal Protective Measures: Wear gloves, lab coat, eye protection and impervious footwear. Contact lenses should not be worn when working with this material.

Special PPE Requirements: If ventilation hood not available wear respirator.

9. Physical and Chemical Properties Section

Appearance: Pink/Purple, Pink/Purple Liquid

Molecular Weight: N/A

Molecular Formula: N/A

pH: N/A

Boiling Point and Boiling Range: N/A

Melting Point/Freezing Point: N/A

Flash Point: N/A

Specific Gravity/Relative Density: N/A

Odor: N/A

Odor Threshold: N/A

Color: Pink/Purple

Flammability (solid/gas): N/A

Vapor Density: N/A

Upper/Lower flammability or explosive limits: N/A

Vapor Pressure: N/A

Evaporation Rate: N/A

Partition Coefficient: n-octanol/water: N/A

Viscosity: N/A

Auto-ignition temperature: N/A

Solubility: Soluble in water, methanol, acetone

Decomposition Temperature: N/A

10. Stability and Reactivity
Potassium Permanganate, 1%

Reactivity: N/A
Chemical Stability: Stable
Conditions of Stability/Instability: Incompatible Materials
Stabilizers needed: None
Safety issue indicated by appearance change: N/A
Other: N/A
Hazardous Reactions: N/A
Hazardous Polymerization: Does not occur

Conditions to avoid: Potassium Permanganate CAS 7722-64-7 is a powerful oxidizing agent. Incompatible with reducing agents, acids, formaldehyde, ammonium nitrate, dimethylformamide, glycerol, combustible materials, alcohols, arsenites, bromides, iodides, charcoal, organic substances, ferrous or mercurous salts, hypophosphites, hypo sulfites, sulfites, peroxides, oxalates, ethylene glycol, Manganese salts in air oxidize the toxic sulfur dioxide to more toxic sulfur trioxide. Can react violently with most metal powders, ammonia, ammonium salts, phosphorous, many finely divided organic compounds (materials), flammable liquids, acids, sulfur.

Classes of Incompatible Materials: Oxidizers, Strong Acids, Strong Bases, Zinc, Powdered Metals, Peroxides, Copper, Strong Reducing Agents

Hazardous Decomposition Products: Thermal-oxidation degradation can produce oxides of carbon. Toxic gases and vapors (i.e. Carbon monoxide, Potassium oxides, Manganese, Manganese oxides) may be released in a fire.

11. Toxicological Information

Likely Routes of Exposure
- Eyes: Irritation.
- Skin: Irritation.
- Inhalation: Dizziness, headache.
- Ingestion: Nausea.

Signs or Symptoms of Exposure: Nausea.

Effects from short term exposure (delayed, immediate, chronic): Irritation to the eyes, nose, throat; headache, dizziness, nausea.

Acute Toxicity (Numerical Measures): Potassium Permanganate CAS= 7722-64-7: LD50 (oral, mouse) 750 mg/kg ; LD50 (oral, rat) 750 mg/kg

Carcinogenicity (NTP, IARC, OSHA): N/A

12. Ecological Information

Ecotoxicity: Potassium Permanganate CAS=7722-64-7: Toxicity to Fish: LC50 Oncorhynchus mykiss (rainbow trout) - 0.3-0.6 mg/L 96.0 h ; EC50 Daphnia magna (Water flea) - 0.084 mg/L 48 h

Persistence and degradability:
Bioaccumulation Potential (octanol-water partition coefficient, BCF):
Mobility in the soil:
Adverse Environmental Effects:

13. Disposal Considerations

Recommended Disposal Containers: Check with your local waste authorities*
Recommended Disposal Methods: Do not dispose of in drains, check with your local waste authorities.*
Physical/Chemical Properties affecting Disposal: See section 2 and section 9 applicable information.*
Special Precautions for Landfill and Incineration Activities: Check with your local waste authorities.*
Waste Stream: Consult your local or regional authorities.*

14. Transport Information

UN Number: Not regulated.
UN Proper Shipping Name:
Transport Hazard Class(es):
Potassium Permanganate, 1%

Packing Group Number:
Environmental Hazards (IMDG code):
  Marine Pollutant:
Transport in Bulk (IBC Code):
Special Transport Precautions:

15. Regulatory Information
OSHA:
DOT:
EPA:
CPSC:
### 16. Other Information

**Revision Date:** 03/20/2015

- **NFPA**
  - Health: 1
  - Fire Hazard: 0
  - Reactivity: 0
  - Specific Hazard: 

- **HMIS**
  - Health: 1
  - Flammability: 0
  - Physical Hazard: 0
  - Personal Protection: 

- **National Fire Protection Association (USA) NFPA**
  - Fire Hazard: 
  - Health: 
  - Reactivity: 
  - Specific Hazard: 

- **Hazardous Material Information System HMIS**
  - Health: 1
  - Flammability: 0
  - Physical Hazard: 0
  - Personal Protection: 

**Notice to Reader:**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.