1. PRODUCT DESCRIPTION
Product Name: Potassium Permanganate
Product Code(s): 88-4130, 88-4148, 88-4150
Size: 125 g, 500 g
Chemical Name: Potassium Permanganate
CAS Number: 7722-64-7
Formula: KMnO₄
Synonyms: Permanganic acid, potassium salt
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS
Principal Hazardous Components: Potassium Permanganate (CAS # 7722-64-7) 90-100%
TLV and PEL units: ACGIH-TLV 0.2 mg/m³ TWA for manganese and its inorganic compounds, as Mn
OSHA-PEL 5 mg/m³ Ceiling for manganese compounds, as Mn

3. HAZARD IDENTIFICATION
Emergency Overview: Oxidizer; contact with combustible material may cause fire. Harmful if inhaled or swallowed. Causes severe irritation of eyes, respiratory tract, and skin. Keep out of reach of children.
Potential Health Effects:
Eyes: May cause irritation.
Skin: May cause irritation.
Ingestion: May cause gastrointestinal discomfort.
Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES
Emergency and First Aid Procedures:
Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention at once.
Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention at once.
Ingestion - Do not induce vomiting. If swallowed, if conscious, give water immediately and get medical attention at once. Never give anything by mouth to an unconscious person.
Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm and quiet, and get medical attention at once.

5. FIREFIGHTING PROCEDURES
Flash Point (Method Used): N/A
NFPA Rating:
  Health: 1
  Fire: 0
  Reactivity: 0
  Other: OXIDIZER
Extinguisher Media:
  Use dry chemical, CO₂ or appropriate foam.
Flammable Limits in Air % by Volume: N/A
Autoignition Temperature: N/A

Special Firefighting Procedures:
Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Strong oxidizer. Contact with combustible materials, flammable materials or powdered metals can cause fire or explosion.

6. SPILL OR LEAK PROCEDURES
Steps to be Taken in Case Material is Released or Spilled:
Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

7. SPECIAL PRECAUTIONS
Precautions to be Taken in Handling or Storing: Keep container tightly closed.
Other Precautions: Store separately and away from flammable and combustible materials.

8. SPECIAL PROTECTION INFORMATION
Respiratory Protection (Specify Type):
None needed under normal conditions of use with adequate ventilation.
NIOSH approved equipment should be worn if PELs are exceeded.
Ventilation:
Local Exhaust: Yes
Mechanical (General): Yes
Special: No
Other: No

Protective Gloves:
Rubber, neoprene, PVC, or equivalent.

Eye Protection:
Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:
Lab apron, eye wash, and safety shower.

9. PHYSICAL DATA
Molecular Weight: 158.04
Melting Point: Approximately 240°C
Boiling Point: N/A
Vapor Pressure: N/A
Vapor Density (Air=1): 5.4
Specific Gravity (H2O=1): 2.7
Percent Volatile by Volume: 0 (21°C)
Evaporation Rate (H2O=1): N/A
Solubility in Water: Moderate (1-10%)
Appearance and Odor: Dark purple to bronze crystals, odorless

10. REACTIVITY DATA
Stability: Stable
Conditions to Avoid: Heat
Incompatibility (Materials to Avoid): Organic materials, combustible materials, strong reducing agents, strong acids, peroxides, alcohols, chemically active metals.
Hazardous Decomposition Products: None
Hazardous Polymerization: Will not occur
11. TOXICITY DATA
Toxicity Data: Oral Rat LD50: 750 mg/kg
Effects of Overexposure:
   Acute: See section 3
   Chronic: None
Conditions Aggravated by Overexposure: Excessive inhalation is
   irritating, may cause perforated septum. Severe irritation or burns on
   eyes and skin.
Target Organs: Respiratory system, central nervous system, blood,
   kidneys.
Primary Route(s) of Entry: Ingestion, inhalation

12. ECOLOGICAL DATA
EPA Waste Numbers: D001

13. DISPOSAL INFORMATION
Waste Disposal Methods: Dispose in accordance with all applicable
   Federal, State and Local regulations.
   Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION
Description: Potassium permanganate, 5.1, UN1490, II

15. REGULATORY INFORMATION
EPA TSCA Status: On TSCA Inventory
Hazard Category for SARA Section 311/312 Reporting: Acute

<table>
<thead>
<tr>
<th>Product or Components</th>
<th>SARA Sec. 313</th>
<th>SARA EHS Chemicals</th>
<th>CERCLA</th>
<th>RCRA</th>
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<td>Sec. 103 Category</td>
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<td>No</td>
<td>Manganese compound</td>
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16. ADDITIONAL INFORMATION
The information provided in this Material Safety Data Sheet represents a
compilation of data drawn directly from various sources available to us.
Carolina Biological Supply makes no representation or guarantee as to
the suitability of this information to a particular application of the
substance covered in the Material Safety Data Sheet. Any employer must
carefully assess the applicability of any information contained herein
in regards to the particular use to which the employer puts the
material.

Glossary
ACGIH.......American Conference of Governmental Industrial Hygienists
CAS Number..Chemical Abstracts Service Number
CERCLA......Comprehensive Environmental Response, Compensation, and
             Liability Act
DOT.........U.S. Department of Transportation
IARC........International Agency of Research on Cancer
mppcf......million particles per cubic foot
N/A...........Not Available
NTP.........National Toxicology Program
OSHA........Occupational Safety and Health Administration
PEL.........Permissible Exposure Limit
ppm.........parts per million
RCRA........Resource Conservation and Recovery Act
SARA.........Superfund Amendments and Reauthorization Act
TLV.........Threshold Limit Value
TSCA........Toxic Substances Control Act