



SDS #: 645

Revision Date: March 21, 2014

## Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## Potassium Permanganate

**Signal Word**  
**DANGER**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261  
 Chemtrec Emergency Phone Number: (800) 424-10177

**Pictograms**

### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Oxidizing solids (Category 2). May intensify fire; oxidizer (H272). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).



Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink, or smoke when using this product (P270).



### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Potassium permanganate	7722-64-7	KMnO <sub>4</sub>	158.04	

### SECTION 4 — FIRST AID MEASURES

**If exposed or concerned:** Get medical advice or attention (P308+P313).

**If inhaled:** Remove victim to fresh air in a position comfortable for breathing.

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

**If on skin:** Rinse cautiously with water for several minutes.

**If swallowed:** Rinse mouth (P330). Call a POISON CENTER or physician if you feel unwell (P301+P312).

### SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.

Powerful oxidizing agent; dangerous fire and explosion risk. When heated in contact with organic or

**NFPA Code**  
 None established

combustible materials, can explode. When heated to decomposition, may emit toxic fumes.

In case of fire: Use a tri-class dry chemical fire extinguisher (P370+P378).

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**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

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Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

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**SECTION 7 — HANDLING AND STORAGE**

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Flinn Suggested Chemical Storage Pattern: Inorganic #8. Store with borates, chromates, manganates and permanganates. Store in a cool dry place.

Keep away from combustible materials (P220). Take any precautions to avoid mixing with combustibles (P221).

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**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

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Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Dark purple to blue crystals with a metallic sheen. Odorless. Melting point: 240 °C (decomposes)

Soluble: Water, acetone and methyl alcohol Specific gravity: 2.7032

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**SECTION 10 — STABILITY AND REACTIVITY**

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Avoid contact with strong reducers, organic and combustible materials, finely powdered metals, peroxides, aluminum, zinc, lead, copper, and their alloys.

Shelf life: Indefinite, if stored properly.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Toxic, corrosive. Overexposure may produce ORL-RAT LD<sub>50</sub>: 1090 mg/kg

anemia, swelling of the throat with possible suffocation, kidney IHL-RAT LC<sub>50</sub>: N.A.

damage and infertility in men. Chronic effects: N.A. SKN-RBT LD<sub>50</sub>: N.A.

Target organs: Central nervous system, blood, kidneys, lungs

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**SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #12a is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Potassium Permanganate; UN number: UN1490. Hazard class: 5.1, Oxidizer.

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**SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed, EINECS-listed (231-760-3), RCRA code D001.

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**SECTION 16 — OTHER INFORMATION**

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CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

N.A. = Not available, not all health aspects of this substance have been fully investigated.

N/A = Not applicable

**Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.**

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