

Lab

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 645.00

Revision Date: July 13, 1998

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Potassium Permanganate

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261  
CHEMTREC Emergency Phone Number: (800) 424-9300

### SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Potassium Permanganate

CAS#: 7722-64-7

### SECTION 3 — HAZARDS IDENTIFICATION

Dark purple or blue, odorless crystals with a metallic sheen.  
Slightly toxic by ingestion. Corrosive to body tissues. Avoid all body tissue contact.

#### FLINN AT-A-GLANCE

Health-1  
Flammability-0  
Reactivity-3  
Exposure-2  
Storage-0

0 is low hazard, 3 is high hazard

### SECTION 4 — FIRST AID MEASURES

Call a physician, seek medical attention for further treatment, observation and support after first aid.  
Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.  
Eye: Immediately flush with fresh water for 15 minutes.  
External: Wash continuously with fresh water for 15 minutes.  
Internal: Give large quantities of water. Call a physician or poison control at once.

### SECTION 5 — FIRE FIGHTING MEASURES

Non flammable solid.  
Powerful oxidizing agent; dangerous fire and explosion risk. When heated in contact with organic or combustible materials, can explode. When heated to decomposition, emits toxic fumes of K<sub>2</sub>O.  
**Fire Fighting Instructions:** Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

#### NFPA CODE

None  
Established

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from area. 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.

### SECTION 7 — HANDLING AND STORAGE

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

### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.  
Use exhaust ventilation to keep airborne concentrations low.

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## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Dark, purple, blue, odorless crystals with a metallic sheen.

Solubility: Soluble in water, acetone and methyl alcohol.

Formula:  $\text{KMnO}_4$

Formula Weight: 158.04

Specific Gravity: 2.7032

Melting Point: Decomposes at 240 C.

## SECTION 10 — STABILITY AND REACTIVITY

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

Shelf life: Indefinite.

## SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Toxic, corrosive. Overexposure may produce anemia, swelling of the throat with possible suffocation, kidney damage and infertility in men. Chronic effects: N.A.

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

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

ORL-RAT LD50: 1090 mg/kg

IHL-RAT LC50: N.A.

SKN-RBT LD50: N.A.

## SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

Please consult with state and local regulations.

Flinn Suggested Disposal Method #12a is one option.

## SECTION 14 — TRANSPORT INFORMATION

Shipping Name: Potassium Permanganate

Hazard Class: 5.1, Oxidizer

UN Number: UN1490

N/A = Not applicable

## SECTION 15 — REGULATORY INFORMATION

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

## SECTION 16 — OTHER INFORMATION

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