

## Section 1 - Chemical Product and Company Identification

### MSDS Name:

Potassium permanganate solutions, 0.1-5%

### Synonyms:

### Company Identification:

DISTRIBUTOR: **UV PROCESS SUPPLY**  
ADDRESS: 1229 W. CORTLAND  
CHICAGO, IL 60614-4805  
TELEPHONE #: (773) 248-0099

### Emergency Phone Number:

(412) 826-5230

### CHEMTREC Phone Number:

800-424-9300

## Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
7722-64-7	Potassium permanganate	0.1-5

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

*Appearance: dark purple*

*This is expected to be a low hazard for usual industrial handling.*

*Target Organs: none known.*

### Potential Health Effects

#### Eye:

May cause irritation, tearing and staining of the eyes.

#### Skin:

May cause irritation, redness, and staining of the skin.

#### Ingestion:

May cause burning of the throat, drying of mucous membrane, nausea, vomiting, moderate gastrointestinal irritation.

#### Inhalation:

May cause sore throat, respiratory tract irritation, dyspnea and labored breathing.

#### Chronic:

May cause dermatitis and conjunctivitis.

## Section 4 - First Aid Measures

### Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

### Skin:

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

### Ingestion:

Do NOT induce vomiting. Get medical aid at once. Give oxygen if respiration is depressed.

### Inhalation:

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

**Notes to Physician:**

Treat symptomatically and supportively.

**Section 5 - Fire Fighting Measures**

**General Information:**

Negligible fire and explosion hazard when exposed to heat or flame. Move container if possible, avoid breathing vapors or dust. For massive fire in storage area, use unmanned hose holder or monitor nozzles. Evacuate to a radius of 2500 feet for uncontrollable fires.

**Extinguishing Media:**

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**Autoignition Temperature:**

No information found.

**Flash Point:**

No information found.

**NFPA Rating:**

CAS# 7732-18-5: Not published.

CAS# 7722-64-7: Not published.

**Explosion Limits:**

Lower:           Upper:

**Section 6 - Accidental Release Measures**

**General Information:**

Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. Isolate area and deny entry. For large spills, dike far ahead of spill for later disposal.

**Section 7 - Handling and Storage**

**Handling:**

Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas.

**Storage:**

Store capped at room temperature. Protect from heat and incompatibles.

**Section 8 - Exposure Controls, Personal Protection**

**Engineering Controls:**

Provide local exhaust or general dilution ventilation.

**Exposure Limits**

**Chemical Name:**

Water

ACGIH

None of the components are on this list.

NIOSH

None of the components are on this list.

OSHA

None of the components are on this list.

Potassium permanganate

None of the components are on this list.

None of the components are on this list.

None of the components are on this list.

**OSHA Vacated PELs**

**Personal Protective Equipment**

**Eyes:**

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

**Skin:**

Wear appropriate protective gloves to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to prevent skin exposure.

**Respirators:**

Not required for normal use. Firefighting-- any self-contained breathing apparatus with full facepiece operated in pressure-demand mode. High levels- supplied-air respirator with full facepiece, helmet, or hood.

**Section 9 - Physical and Chemical Properties**

**Physical State:** Clear liquid

**Color:** dark purple

**Odor:** odorless

**pH:** No information found.

**Vapor Pressure:** 14mm Hg @20°C

**Vapor Density:** > air

**Evaporation Rate:** >1 (ether=1)

**Viscosity:** No information found.

**Boiling Point:** No information found.

**Freezing/Melting Point:** No information found.

**Decomposition Temperature:** No information found.

**Solubility in water:** Soluble.

**Specific Gravity/Density:** 1.0-1.1

**Molecular Formula:** No information found.

**Molecular Weight** No information found.

**Section 10 - Stability and Reactivity**

**Chemical Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Incompatible materials.

**Incompatibilities with Other Materials**

None reported.

**Hazardous Decomposition Products**

Thermal decomposition releases oxygen which greatly increases the flammable rate of combustible substances.

**Hazardous Polymerization**

Has not been reported

**Section 11 - Toxicological Information**

**RTECS:**

CAS# 7732-18-5: ZC0110000.

CAS# 7722-64-7: SD6475000.

**LD50/LC50:**

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 7722-64-7:

Oral, rat: LD50 = 1090 mg/kg.

**Carcinogenicity:**

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 7722-64-7: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

**Epidemiology:**

Potassium permanganate solution is an eye, skin, mucous membrane irritant. Poisoning may affect kidneys.

**Teratogenicity:**

**Reproductive:**

**Mutagenicity**

**Neurotoxicity**

## Section 12 - Ecological Information

No information found.

## Section 13 - Disposal Considerations

Dispose of in accordance with federal, state, and local regulations.

## Section 14 - Transport Information

### US DOT

**Shipping Name:** No information found.

**Hazard Class:**

**UN Number:**

**Packing Group:**

## Section 15 - Regulatory Information

### US Federal

#### TSCA

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 7722-64-7 is listed on the TSCA Inventory.

#### SARA Reportable Quantities (RQ)

CAS# 7722-64-7: final RQ = 100 pounds (45.4 kg)

#### CERCLA/SARA Section 313

None of the components are on this list.

#### OSHA - Highly Hazardous

None of the components are on this list.

### US State

#### State Right to Know

Potassium permanganate can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Massachusetts.

#### California Regulations

### European/International Regulations

#### Canadian DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 7722-64-7 is listed on Canada's DSL List.

#### Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 7722-64-7 is listed on Canada's Ingredient Disclosure List.

## Section 16 - Other Information

MSDS Creation Date: February 17, 1998

Revision Date: August 7, 2001

### Material Safety Data Sheet

Print Date: 9/25/2001

### Potassium permanganate solutions, 0.1-5%

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