MATERIAL SAFETY DATA SHEET

I. GENERAL INFORMATION ---------------------------------------
Code, Trade Name: PP1404, Potassium Permanganate Reagent
Chemical Name: Potassium Permanganate in Water
Chemical Family: Inorganic-Oxidizing Agent in Water

II. HAZARDOUS INGREDIENTS -------------------------------------
* Potassium Permanganate  CAS #7722-64-7  0.3% W/V
  TLV: 5 mg/cu.m. (Mn)  TXDS: orl-rat LD50: 1090mg/kg
  OSHA-PEL: Not Established  orl-hmn LDLO: 143 mg/kg
  Carcinogenicity: Not listed (IARC).

III. HEALTH HAZARD DATA ---------------------------------------
Toxic by ingestion and inhalation. Causes irritation of nasal and respiratory passages, gastrointestinal tract, nausea, diarrhea, possible lung and stomach injury. Contact can irritate eyes, skin and mucous membranes.
Routes of Entry: Ingestion, Inhalation.
First Aid:
  Eyes: Flush with water for at least 15 min; get immediate medical assistance.
  Skin: Remove contaminated clothing and wash with soap and water.
  Inhalation: Move to fresh air & give artificial respiration if breathing has stopped.
  Ingestion: Induce vomiting if patient is conscious.
GET MEDICAL ASSISTANCE FOR ALL CASES OF OVER EXPOSURE!

IV. PHYSICAL DATA --------------------------------------------
  Boiling Point: N/A  Specific Gravity: 1.00
  Vapor Density: N/A
  Water Solubility: Miscible
  Appearance & Odor: Deep purple aqueous solution.

V. FIRE & EXPLOSION HAZARD DATA ------------------------------
Flash Point: Nonflammable
Extinguishing Media: Multi-purpose dry chemical or media appropriate for surrounding materials.
Special Procedures: Wear self contained breathing apparatus and protective clothing.
Unusual Fire & Explosion Hazards: Avoid contact with oxidizable materials. Thermal decomposition produces toxic fumes.

VI. REACTIVITY DATA -------------------------------------------
Conditions To Avoid: Contact with combustible material, acids, reducing agents, certain metals, P, C, S, N2H4, and organic materials. Explosive in contact with H2SO4 & H2O2.
Hazardous Combustion & Decomposition Products:
  Manganese and potassium oxides.

VII. SPECIAL PROTECTION ---------------------------------------
Provide adequate general and local exhaust ventilation.
Protect eyes and skin with safety goggles and gloves.
Do not get in eyes, on skin or clothing.
Wear self contained breathing apparatus in high vapor areas.
Do not breathe vapors.

VIII. HANDLING AND STORAGE PRECAUTIONS -----------------------
Keep container tightly closed.
Store in cool, dry, well ventilated area.

NFPA Hazard Rating:
  Health – 0, Flammability – 0, Reactivity - 0

Store away from heat, acids, and oxidizers.
Keep away from combustible materials and ignition source.
Wash thoroughly after handling.
Empty containers may be hazardous due to retained residue.

DOT - Not Regulated

IX. ENVIRONMENTAL PROTECTION --------------------------------
Spill Response: Absorb with sand or vermiculite and scoop up and containerize for proper disposal.
Waste Disposal: Comply with all local, state and federal regulations.

* Toxic chemical or chemicals subject to the reporting requirements of Section 313, SARA Title III.

The above information is to be used only as a guide, and does not profess to be all inclusive. Cascade Water Services shall not be held liable for any damage resulting from the handling or contact with the above product.

N/A = Not Available
Issue Date: 12/03
Revised: