MATERIAL SAFETY DATA SHEET

MSDS No: PP[illegible]
Revision Date: January 4, 2012
Approved by: James A. Bertsch

Section 1 Chemical Product and Company Information

Product POTASSIUM PERMANGANATE, 2% SOLUTION

Synonyms Potassium Permanganate, Water Solution

CHEMTREC 24 Hour Emergency Phone Number [illegible] 424-93[illegible]

Section 2 Hazards Identification

Emergency Overview

WARNING!
HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION.
Avoid contact with skin, eyes and mucous membranes. Avoid inhalation of vapors, mists or spray. Target organs: None known.

HMIS *	
Health	2
Fire	[illegible]
Reactivity	[illegible]
Contact	[illegible]

Section 3 Composition / Information on Ingredients

Chemical Name	CAS #		TLV Units
Potassium permanganate	[illegible]22-64-7	2%	TWA: 5 mg/m³ (air) Ceiling as manganese dust
Water	[illegible]32-18-5	98%	None established. (ACGIH 2001)

Section 4 First Aid Measures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN CONTACT: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

General information: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

Extinguishing Media: Use any media suitable for extinguishing supporting fire.
Flash Point: N/A
Autoignition temperature: N/A
Explosion Limits: **Lower:** N/A **Upper:** N/A

NFPA

None listed.

Section 6 Accidental Release Measures

Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation. Absorb with an inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.

Section 7 Handling & Storage

GENERAL STORAGE CODE GREEN

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.
Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale vapors, spray or mist. Wash thoroughly after handling. Remove and wash clothing before reuse.
Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 Exposure Controls / Personal Protection

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: Use a chemical fume hood and/or wear a NIOSH/MSHA approved respirator.

Section 9 Physical & Chemical Properties

Physical state: Liquid.
Appearance: Purple, water-like.
Odor: No odor.
pH: N/A
Vapor pressure (mm Hg): 14 (water)
Vapor Density (Air = 1): 0.7 (water)
Evaporation rate (Ether = 1): > 1
Viscosity: N/A
Boiling point: ~[illegible]°C (212°F) (water)
Freezing / Melting point: ~[illegible]°C (32°F) (water)
Decomposition temperature: N/A
Solubility: Complete
Specific gravity (H_2O = 1): ~1
Percent volatile (%): 98
Molecular formula: Mixture.
Molecular weight: Mixture.

Section 10 Stability & Reactivity

Chemical stability: Stable
Hazardous polymerization: Will not occur.
Conditions to avoid: Exposure to incompatible materials and excessive temperatures.

Incompatibilities with other materials: Alcohols, arsenites, bromides, iodides, charcoal, hydrochloric acid, organic materials, ferrous or mercurous salts, hypophosphites, hyposulfites, sulfites, peroxides, oxalates, strong reducing agents, strong acids, formaldehyde, ethylene glycol, combustible organics, metal powders.

Hazardous decomposition products: Oxygen, oxides of potassium, oxides of manganese.

Section 11 Toxicological Information

Effects of overexposure: Harmful by ingestion. May cause irritation. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

RTECS #: SD6475[illegible] (Potassium permanganate solid)
ORL-RAT LD50: 1090 mg/kg (Potassium permanganate solid)
ORL-MOUSE LD50: 2157 mg/kg (Potassium permanganate solid)

Section 12 Ecological Information

Harmful to aquatic life in very low concentrations.

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport Information

UN/NA number: N/A
Shipping name: Not Regulated.
Hazard class: N/A
Packing group: N/A
Exceptions: N/A

Section 15 Regulatory Information

TSCA-listed, EINECS-listed (231-76[illegible]-3), RCRA code D001 (Potassium permanganate solid)

Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use the information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Hazardous Materials Industrial Standards