

WARD'S

Natural Science Establishment, Inc.
P O Box 92912
Rochester, NY 14692-9012
716-359-2502

397 Vansickle Road
St. Catharines, Ontario L2S 3T5
815 Floro Lane
San Luis Obispo, CA 98403-5010

MSDS No. PP 700
Effective Date July 13, 1998

MATERIAL SAFETY DATA SHEET

SECTION I NAME 24-HOUR EMERGENCY ASSISTANCE

Product POTASSIUM PERMANGANATE

Chemical Synonyms Chameleon Mineral

Formula $KMnO_4$

Unit Size up to 2.5 Kg.

C.A.S. No. 7722-84-7

HEALTH HAZARD

0	1	2	3	4
HEALTH	HEALTH	HEALTH	HEALTH	HEALTH
0	1	2	3	4
FLAMMABILITY	FLAMMABILITY	FLAMMABILITY	FLAMMABILITY	FLAMMABILITY
0	1	2	3	4
REACTIVITY	REACTIVITY	REACTIVITY	REACTIVITY	REACTIVITY

HAZARD RATING

LEAST SLIGHT MODERATE HIGH EXTREME

0 1 2 3 4

Chemtrec
800-424-9300
Day 716-226-6177

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Potassium Permanganate	100%	See Section V.

SECTION III PHYSICAL DATA

DANGER! STRONG OXIDIZER! CORROSIVE! CAUSES SEVERE BURNS. HARMFUL IF SWALLOWED.

CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE OR EXPLOSION.

Melting Point (°F)	Decomposes at 150°C (302°F).
Boiling Point (°F)	Decomposes.
Vapor Pressure (mm Hg)	Data not listed.
Vapor Density (Air=1)	5.47
Solubility in Water	6.5 grams per 100 mL. water at 20°C (68°F).
Appearance & Odor	Dark purple crystals, blue metallic sheen; no odor.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).
Extinguisher Media	Water spray; dry chemical (ABC); carbon dioxide (CO ₂).

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Powerful oxidizing material. Explosive in contact with sulfuric acid or hydrogen peroxide. Reacts violently with finely divided easily oxidizable substances. Increases flammability of combustible materials. May decompose spontaneously if exposed to intense heat. Spontaneously flammable on contact with glycerine and ethylene glycol.

SECTION V HEALTH HAZARD DATA

Threshold Limited Value
5 mg/m³ (Air) Ceiling as manganese dust. (ACGIH 1992-93) acute oral LD50 (rat) = 1090 mg/kg.

Effects of Overexposure

EYE OR SKIN CONTACT: May cause severe burns with redness and pain. **INGESTION:** May cause inflammation and corrosion of the mouth, pharynx and larynx, including nausea, vomiting, difficulty speaking. **INHALATION:** May cause severe irritation of the respiratory tract, labored breathing, cough, pain in the nose, mouth and throat.

Emergency and First Aid Procedures

SKIN: Flush with water, then wash with mild soap and water. **INGESTION:** If swallowed, do NOT induce vomiting. If conscious, give one or two glasses of water to drink. Call physician immediately. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air, treat symptomatically, and get medical attention. **EYES:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	Stable	Conditions to Avoid
	X		Exposure of material to incompatible materials and heat.

Incompatibility (Materials to Avoid)
See Section IV. Alcohols, arsenites, bromides, iodides, charcoals, hydrochloric acid, organic material, ferrous or mercurous salt, hypophosphites, hyposulfites, sulfides, peroxides, oxalates.

Hazardous Decomposition Products
Oxides of manganese may be present. Potassium hydroxide. When involved in fire, corrosive fumes or smoke may be formed.

Hazardous Polymerization
May Occur Will Not Occur X

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled
Use adequate ventilation. Avoid creating dust conditions. Sweep up and place in a suitable container for proper disposal. Flush spill area with water.

Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Dispose of in accordance with federal, state and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)
None should be needed in normal laboratory use. If dusty, work in ventilation hood or wear a standard NIOSH/MSHA-approved dust mask or respirator.

Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves
Rubber. **Eye Protection**
Chemical safety glasses.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing
Store in a cool, dry place away from combustible material. Keep from contact with clothing. Remove and wash contaminated clothing promptly. Wash thoroughly after handling.

Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals. Fire or high temperatures may cause explosive decomposition if confined. Avoid contact with skin, eyes and mucous membranes.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 5 Date 7/13/98 Approved Michael Raszejka

Chemical Safety Coordinator MR

The information contained herein is furnished without warranty of any kind. Employers should use this 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. Printed on recycled paper.

D.O.T. POTASSIUM PERMANGANATE, 5.1, UN 1490, PG II

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20