



COLUMBUS CHEMICAL INDUSTRIES INC.

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Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements

U.S. Department of Labor

Occupational Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072

IDENTITY (as Used on Label and List)

Potassium Permanganate 0.01-2.0N Solutions

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturers /Distributor Address Number Street City State and Zip Code

Columbus Chemical Industries

P.O. Box 8, N4335 Temkin Rd.

Columbus, WI 53925-0008

Emergency Telephone Number

CHEMTREC 1-800-424-9300

Telephone Number for Information

920-623-2140

Date Prepared

12-30-2005

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Potassium Permanganate ^{*,**}	7722-64-7	5 mg (Mn)/m ³	0.2 mg	Not available	<1 - 6%%

*SYNONYMS: Permanganic acid, potassium salt; Chameleon mineral; Condy's crystals; Permanganate of

**Subject to the reporting requirements of SARA Title III.

Section III - Physical/Chemical Characteristics

Boiling Point	Not available	Specific Gravity (H ₂ O = 1)	Varies
Vapor Pressure (mm Hg)	Not available	Melting Point	Not available
Vapor Density (AIR = 1)	Not available	Evaporation Rate (Butyl Acetate = 1)	Not available

Solubility in Water

Complete.

Appearance and Odor

Dark purple, odorless liquid.

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
Not flammable	Not applicable	Not applicable	Not applicable

Extinguishing Media

Use large quantities of water. Dike to contain.

Special Fire Fighting Procedures

Watch for rapid burning and be prepared to retreat to a safe distance. If yellow, white or brown fumes are present, wear positive pressure breathing apparatus and full protective clothing.

Unusual Fire and Explosion Hazards

Powerful oxidizing material. May decompose spontaneously if exposed to intense heat 150°C/302°F. May be explosive in contact with certain other chemicals. May react violently with finely divided, oxidizable substances.

Section V Reactivity Data

Stability	Unstable		Conditions to Avoid	Avoid contact with organic and other incompatible materials; heat.
	Stable	X		

Incompatibility Materials to Avoid

Organic and combustible materials, strong reducing agents, iodine.

Hazardous Decomposition or Byproducts

When involved in a fire, potassium permanganate may form corrosive fumes, manganese oxide.

Hazardous Polymerization**Conditions to Avoid**

	May Occur		No known conditions.
	Will Not Occur	X	

Section VI Health Hazard Data

Routes of Entry	Inhalation ?	Skin ?	Ingestion ?
Multiple	Yes	Yes	Yes

Health Hazards (Acute and Chronic)

INHALATION: airborne dust, mist or spray may irritate and cause damage to respiratory tract. SKIN: Prolonged contact of solutions at room temperature may be irritating to skin, leaving brown stains and damage to skin.

EYES: Causes severe burns on contact. INGESTION: If swallowed, may cause severe burns to mucous membranes.

Carcinogenicity	NTP	IARC Monographs	OSHA REGULATED?
	Not listed	Not listed	Not listed

Signs and Symptoms of Exposure.

INHALATION: Irritation, cough, difficulty breathing, sneezing. SKIN/EYES: Irritation, redness and/or swelling, itching, burns. INGESTION: Nausea, irritation of esophagus and mouth, gastrointestinal pain.

Medical Conditions Generally Aggravated by Exposure

Open wounds, burns and areas with mucosal damage.

Emergency and First Aid Procedures EYES: Flush eyes with large amounts of water for at least 15 minutes, holding eyelids apart. Do not use chemical antidote. Seek medical attention. SKIN: Immediately wash contaminated areas with water. Remove contaminated clothing. INGESTION: **DO NOT** induce vomiting. Wash out mouth with water and give large amounts of water. INHALATION: Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Section VII Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled Keep combustibles from spilled material. Absorb on non-combustible materials. Shovel or sweep up the material; do not return spilled material to original container. Transfer to clean metal drum. To clean floors, flush with sodium thiosulfate solutions or ferrous salt solution, absorb on non-combustible materials.

Waste Disposal Method Observe all federal, state, and local regulations when disposing of this material. Aqueous solutions can be deactivated by treatment with sodium thiosulfate, a bisulfite or ferrous salt solution.

Precautions to be Taken in Handling and Storing Store in a cool, dry, well-ventilated area in tightly-closed, plainly-labelled containers. Store in a corrosion-resistant area. Protect against physical damage, light. Maintain adequate ventilation. Do not ingest or breathe vapors. Protect exposed tissues. Store away from heat and combustible materials.

Other Precautions Avoid storing with oxidizable materials. Segregate from acids, peroxides, formaldehyde, and all organic or easily oxidizable materials including anti-freeze, gasoline and hydraulic fluids.

Section VII Control Measures

Respiratory Protection (Specify Type) NIOSH/MSHA-approved respirator with dust/mist cartridge.

Ventilation	Local Exhaust	Necessary	Special	Safety shower nearby.
	Mechanical (General)	Recommended.	Other	Eye wash nearby.

Protective Gloves Appropriate chemical-resistant gloves. **Eye Protection** Chemical safety goggles

Other Protective Clothing or Equipment Body covering clothing or plastic apron.

Work /Hygienic Practices Wash exposed areas thoroughly with soap and water after handling. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash contaminated clothing before reuse. Do not wear contact lenses when handling this product. Do not ingest. Do not breathe vapors. **OXIDIZER.**

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