

Aquapac Pty Ltd

ABN 36 114 118 311

Water treatment & Specialty chemicals

MATERIAL SAFETY DATA SHEET

Product: Potassium Permanganate

Company Details

Supplier: Aquapac Pty Ltd

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IDENTIFICATION

U.N. Number: N/A **Class:** 5.1

Hazchem: N/A **Poisons Schedule:** 6

EPG: N/A **Packaging Group:** 11

Hazardous according to criteria of Worksafe Australia

Ingredients

Chemical Entity	CAS No.	Proportion
Potassium Permanganate	7722-64-7	6%

Other Names

Condy's Crystals Solution 6%

Uses

Oxidiser; disinfectant; deodouriser; bleach; tanning; reagent in analytical chemistry; medicine (antiseptic); air and water purification.

Physical Description / Properties

Appearance:	Deep purple to red coloured solution.		
Flash point:	N/A	Specific Gravity:	1.02
Boiling point (°C):	N/A	Flash Point :	Not available
Melting Point (°C):	240 °C	Solubility in Water (g/L):	Soluble
Vap Pressure (mm Hg):	Not available		

Other Properties

Odour: odourless

Solubility in acid: Soluble in water, acetone and methanol. MW 158.0339

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HEALTH HAZARD INFORMATION

Health Effects

No adverse health effects expected if the product is handled in accordance with this Material Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled are:

Acute

Swallowed May cause severe and permanent damage to the digestive tract. May cause severe gastro intestinal tract irritation with nausea, vomiting and possible burns.. May cause perforation of the digestive tract. May be harmful if swallowed. May form methemoglobin which in sufficient concentration causes cyanosis. In high doses manganese may increase anemia by interfering with iron absorption.

Eye May cause eye irritation and possible burns. May cause chemical conjunctivitis and corneal damage.

Skin May cause mild skin irritation and possible burns. May cause skin rash (in milder cases) and cold clammy skin. Skin contact can cause brown stains in the area, and possible hardening of the outer skin layer.

Inhaled Aspiration may lead to pulmonary oedema. May cause respiratory tract irritation with possible burns.

Chronic Effects

Prolonged or repeated skin contact may cause defatting and dermatitis. Effects may be delayed. May cause kidney damage. May cause reproductive effects.

As with any chemical - ingestion, inhalation, and prolonged or repeated skin contact should be avoided by good occupational work practice.

First Aid

Swallowed Do NOT induce vomiting. If victim is conscious and alert, give 2 – 4 cupfuls of milk or water. Seek medical attention immediately.

Eye Immediately irrigate with copious quantities of water for at least 30 minutes. Eyelids to be held open. Seek immediate medical attention immediately. Do NOT allow victim to rub or keep eyes closed.

Skin Flush contaminated skin with plenty of water for at least 15 minutes and then wash with soap and water. Remove contaminated clothing and wash before re-use. Destroy contaminated shoes.

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Inhalation Get medical aid immediately. Remove victim from exposure - avoid becoming a casualty. Seek medical attention if any symptoms persist. If breathing difficult, provide oxygen. Do NOT use mouth to mouth respiration.

Poison Information Centres in each State capital city can provide additional assistance.

Advice to Doctor

Absorption of this product into the body may cause cyanosis. Moderate degrees of cyanosis need to be treated only by supportive measures; bed rest and oxygen inhalation. If cyanosis is severe, intravenous injection of methylene blue, 1 mg/Kg body weight may be of value.

PRECAUTIONS FOR USE

Exposure Standards (for atmospheric contaminants in the occupational environment)

	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Fume as Mn		1		

Engineering Controls

Use in a well-ventilated area. Avoid generating and inhaling mists and aerosols. Keep containers closed when not in use. If risk of overexposure exists, wear SAA approved respirator ensuring correct fit to obtain adequate protection.

Personal Protection

Eyes: Safety glasses, goggles or face shield (appropriate to the splashing risk)
Skin: Rubber or PVC gloves, overalls or PVC suit, safety or rubber boots
Respiratory: If dust is generated the use of an approved respirator is required.

Avoid contact with eyes and skin. Avoid prolonged or repeated exposure. Always wash hands before smoking, eating, drinking or using the toilet.

Flammability

Product stable under normal conditions.

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SAFE HANDLING INFORMATION

Storage and Transport

Not classified as a Dangerous Good for the purposes of transport.

Store in a cool and dry place. Prevent direct sunlight. Keep product tightly closed. Keep away from incompatible materials and all other sources of heat, sparks and open flame. Handle with appropriate personal protective equipment. Store away from strong reducing agents, and strong acids including hydrochloric and sulfuric acids. Check regularly for spills and leaks.

Spills

Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contamination including breathing apparatus.

Contain do not allow spill material to enter the environment. Mop up excess material. Place into suitable labelled plastic containers and hold for waste disposal. Wash area down with excess water once removed. Do NOT use combustible materials to collect spilled material.

Disposal

Refer to State and Land Management Authority and relevant Environmental Protection Authority.

Fire / Explosion Hazards

Conditions to avoid:

High temperatures and reducing agents. Strong acids: sulfuric and hydrochloric acids.

Materials to avoid:

Reducing agents; some acids including: acetic acid. Conc hydrochloric; sulfuric; formaldehyde; ammonium nitrate; dimethyl-formamide. Forms sensitive explosive mixtures with ammonium perchlorate, titanium, arsenic, phosphorous, slag wool and sulphur.

Hazardous Decomposition Products:

Decomposes to form hazardous fumes and gases; oxygen, and oxide of potassium.

Extinguishing Media:

Fire fighters should wear full protective clothing including self-contained breathing apparatus. In case of fire USE WATER ONLY. Do NOT use dry

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chemicals. Cool containers with flooding quantities of water until well after fire is out.

OTHER INFORMATION

Toxicity

Ecotoxicity – Fish Channel Catfish LC50 = 0.75 mg/L; 96hr – unspecified fish – Goldfish LC50 = 3.6mg/L; 24hr – unspecified fish – striped bass LC50 = 1.5 – 5.0 mg/L; 24hr; Static bioassay. Harmful to aquatic life in very low concentrations. Information based on solid 99% potassium permanganate material.

Company Disclaimer

All information contained in this data sheet is as accurate and up-to-date as possible. Since Aquapac Pty Ltd cannot anticipate or control the conditions under which this information may be used, each user should review the information in the specific context of the intended application.

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