

**Official
Material Safety
Data Sheet (MSDS)**

This MSDS version supersedes all previous MSDS for the specified product.



ABLE WESTCHEM

CODE: RM0171
ISSUE DATE: 2011 MAY
ISSUED BY: TM
VERSION: 1.2
PAGE: 1 of 2

Hazardous according to criteria of Worksafe Australia

IDENTIFICATION

Product name: POTASSIUM PERMANGANATE
Product code: RM0171

UN No: 1490 **Hazchem Code:** 2Y
DG Class: 5.1 **Poisons Schedule:** S6

Hazard Category: Harmful
Risk statements: Contact with combustible material may cause fire.
Harmful if swallowed.
Safety statements: Keep out of reach of children.

Use: Oxidising agent

PHYSICAL DESCRIPTION AND PROPERTIES

Appearance: Dark purple crystals
Solubility in water: Completely soluble
Boiling point: Data not available
Melting point: Data not available
Specific gravity: 2.70
Vapour pressure: Not applicable
pH: Data not available
Flash point: Not applicable

INGREDIENTS

Chemical name	CAS No.	Proportion
Potassium permanganate	[7722-64-7]	100%

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

Acute effects:

Swallowed: Severe burns of the gastrointestinal tract, nausea, vomiting, loss of consciousness and possible death.

Eye: Severe irritant. Corrosive to eyes - can cause corneal burns. Can result in permanent injury.

Skin: Severe irritation. Corrosive to skin - may cause skin burns.

Inhalation: Inhalation of dust will result in respiratory irritation.

Chronic effects: Evidence from exposed workers indicate that repeated or prolonged exposure to this chemical could result in central nervous system disorders.

FIRST AID

Swallowed: Immediately rinse mouth with water. Give water to drink. Do NOT induce vomiting. Seek urgent medical attention.

Eye: Immediately hold eye open and flood with water for at least 15 minutes. Seek urgent medical attention.

Skin: Immediately remove contaminated clothing. Wash skin thoroughly with soap and water. Launder clothing before re-use. Seek medical advice if irritation, redness, swelling or blistering occurs.

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Inhalation: Remove patient to fresh air. Keep warm and at rest until fully recovered. Seek medical advice if effects persist. If breathing has stopped apply artificial respiration and seek medical attention immediately.

Advice to doctor: Treat symptomatically as for corrosive material.

Toxicity: Oral LD50 (rat): 1090 mg/kg
Estimated fatal dose (human): 10 g

PRECAUTIONS FOR USE

Exposure standards: No value assigned for potassium permanganate by Worksafe Australia. However TWA for constituents: 1 mg/m³ (Manganese, dust and compounds, as Mn).
The TWA is the time weighted average concentration of the work atmosphere over a normal 8-hour work day and a 40-hour work week. Nearly all workers may be repeatedly exposed to this level day after day, without adverse effect. These exposure standards are issued as guidelines for good practice. All atmospheric contamination should be kept to as low a level as is practically possible. These exposure standards should not be used as fine lines between safe and dangerous concentrations.

Engineering controls: Ensure adequate ventilation to maintain air concentration of components below exposure standard. Avoid generating and inhaling dust.

Personal protection: Avoid contact with eyes and skin. Wear overalls, chemical goggles and impervious gloves. If dust exists, wear dust respirator meeting standards AS1715 and AS1716.

Flammability: Not combustible

SAFE HANDLING INFORMATION

Storage and Transport: Store in a cool place away from direct sunlight. Keep containers sealed when not in use. This material is a Class 5.1 dangerous substance (Oxidising Agent) according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code). Refer to the code for storage and transport requirements. Do not allow to come in contact with strong acids, combustible materials, powdered metals, glycerol, ethylene glycol or hydrogen peroxide. Store away from foodstuffs.

Spills and Disposal: Wear protective gear to prevent contact with eyes and skin and inhalation of dust. Cover with damp absorbent such as sand or soil. Collect and seal in properly labelled drums for disposal. Wash area down with excess water. For disposal refer to State Land Waste Management Authority.

Fire/Explosion Hazard: Strong oxidising agent. Dangerous fire and explosion hazard in contact with combustible materials and ammonium compounds. Reacts violently with sulphuric acid or hydrogen peroxide. This material is not combustible, however will support combustion in other materials. Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path of fire. Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus. Extinguishing media: Water fog or fine water spray.

CONTACT POINT

Contact person: Technical Manager
Telephone: (08) 9458 1604 (Monday to Friday from 8:00am – 4:30pm (UTC+08:00))
Emergency: In case of Poison Emergency in Australia please call 13 11 26 (24 hours).



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