

## **Material Safety Data Sheet**

## **HAZARDOUS**

Catalog Number: 206685 Revision date: 10-Mar-2005

Australia Hazardous Statement: Hazardous according to criteria of NOHSC

1. COMPANY DETAILS

Supplier: MP Biomedicals Australasia Pty Limited

> Unit 12, 167 Prospect Hwy. Seven Hills, NSW 2147 Aust.

(02) 9838 7422 **Telephone Number:** Fax Number: (02) 9838 7390

**Emergency telephone number:** (02) 9838 7422: hours: 8.30 AM to 5.00 PM

**Australian Business Number** 

(ABN):

31 106 467 109

## 2. IDENTIFICATION

**Product name: CALCIUM PERMANGANATE** 

**Catalog Number:** 206685 Synonyms: Not Available

UN/Id No: 1482

Proper shipping name: Permanganates, inorganic, n.o.s.

IATA Hazard Label(s): Oxidizer **Hazard Class** 5.1 Oxidizers

**Subsidiary risk:** No Subsidiary Risk allocated

Packing group:

1Y **Emergency Action Code (Hazchem code):** 

Poisons schedule No. (Aust)/Toxic Substance (NZ): No Poisons Schedule Number allocated Recommended use: Research product for non-human use

Component Australia (AICS): **CALCIUM PERMANGANATE** 

Not Present

N/A (100)

## 3. PHYSICAL DESCRIPTION/PROPERTIES

Physical state: Solid

Formula: Ca(MnO4)2•5H2O Boiling point/range: Not determined Melting point/range: decomposes Density: 2.4 g/ml Vapor pressure: Not determined

Solubility (in water): Soluble

Flash point: Not determined **Autoignition temperature:** Not determined

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#### MP Biomedicals Australasia Pty Limited

www.mpbio.com

Flammable limits in air - lower

(%):

Not determined

Flammable limits in air - upper

Not determined

(%):

## 4. INGREDIENTS

Components	CAS Number	Weight %	EC No.	Classification
CALCIUM PERMANGANATE	N/A	100	-	0

## 5. HAZARDS IDENTIFICATION

Australia Hazardous Statement: Hazardous according to criteria of NOHSC



## Indication of Danger:

O - Oxidizing.

#### **Risk Phrases:**

R 9 - Explosive when mixed with combustible material.

R18 - In use, may form flammablevapour-air mixture.

## Safety Phrases:

S13 - Keep away from food, drink and animal feeding stuffs.

S27 - Take off immediately all contaminated clothing.

S16 - Keep away from sources of ignition - No smoking.

Category of Danger: Oxidizer

Poisons schedule No. (Aust)/Toxic Substance (NZ): No Poisons Schedule Number allocated

## 6. HEALTH HAZARD INFORMATION

#### **HEALTH EFFECTS**

**EMERGENCY OVERVIEW:** Contact with combustible material may cause fire

Principle routes of exposure: Skir

**Inhalation:** May cause irritation of respiratory tract

**Ingestion:** May be harmful if swallowed. **Skin contact:** May cause allergic skin reaction

**Eye contact:** Avoid contact with eyes

Statements of hazard May cause fires.

	Australian Exposure Standards - Carcinogens	Australia - Exposure Standards - Short
CALCIUM PERMANGANATE	Not Listed	Not Listed

Components	Australia - Exposure Standards - Skin E	Australia - Exposure Standards - Time W
CALCIUM PERMANGANATE	Not Listed	Not Listed

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#### **FIRST AID**

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show

the label where possible).

**Inhalation:** Move to fresh air. Call a physician immediately.

Skin contact: Rinse immediately with plenty of water and seek medical advice

**Ingestion:** Do not induce vomiting without medical advice.

**Eye contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

**Protection of first-aiders:** No information available

Notes to physician: None

Medical conditions aggravated by None known

exposure:

## 7. PRECAUTIONS FOR USE

**Section 8 Notes:** TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. According to current knowledge this concentration should neither impair the health or, not cause undue discomfort to, nearly all workers.

**Engineering measures:** Ensure adequate ventilation, especially in confined areas.

#### PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and

protective suit.

Hand protection: Pvc disposable gloves

Skin and body protection: Impervious clothing

**Eve protection:** If splashes are likely to occur, wear: Safety glasses with side-shields

Hygiene measures: Avoid contact with skin, eyes and clothing.



## 8. SAFE HANDLING INFORMATION

Storage:

**ROOM TEMPERATURE** 

**Handling:** Use only in area provided with appropriate exhaust ventilation.

Safe handling advice: Wear personal protective equipment. Remove and wash contaminated clothing

before reuse.

Technical measures/storage

conditions:

Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition For safety reasons in case of fire, cans should be stored separately in closed containments. Do not expose material to high temperatures, changes in pressure or sudden shock. Keep away from contact

with clothing and other combustible materials.

Stability: Stable under recommended storage conditions.

**Polymerization:** None under normal processing.

Hazardous decomposition Thermal decomposition can lead to release of irritating gases and vapours such as

products: carbon oxides.

Materials to avoid: Strong oxidising agents

**Conditions to avoid:** Exposure to air or moisture over prolonged periods.

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#### **Spills and Disposal:**

Personal precautions:

Environmental precautions:

Use personal protective equipment.

Prevent product from entering drains.

Methods for cleaning up:

Sweep up and shovel into suitable containers for disposal.

Waste from residues / unused products:

Waste disposal must be in accordance with appropriate

Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished

with this material may be hazardous.

Contaminated packaging: Do not re-use empty containers

## **Fire/Explosion Hazards:**

Suitable extinguishing media: Use dry chemical, CO2, water spray or `alcohol` foam.

Specific hazards: Burning produces irritant fumes.

Unusual hazards: None known

**Special protective equipment for firefighters:** Wear self contained breathing apparatus for fire fighting if

necessary. In the event of fire and/or explosion do not

breathe fumes.

**Specific methods:** Water mist may be used to cool closed containers.

## 9. TOXICOLOGICAL INFORMATION

#### **Product Information**

## **Acute toxicity**

Components	RTECS Number:	Selected LD50s and LC50s
CALCIUM PERMANGANATE	Not Available	Not Determined

**Chronic toxicity:** Chronic exposure may cause nausea and vomiting, higher exposure causes

unconsciousness.

**Local effects:** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

Specific effects: May include moderate to severe erythema (redness) and moderate edema (raised

skin), nausea, vomiting, headache.

Carcinogenic effects: No data is available on the product itself.

Mutagenic effects: No data is available on the product itself.

Reproductive toxicity: No data is available on the product itself.

## 10. ECOLOGICAL INFORMATION

Mobility:No data availableBioaccumulation:No data availableEcotoxicity effects:No data available

**Aquatic toxicity:** May cause long-term adverse effects in the aquatic environment.

	U.S. DOT - Appendix B - Marine Pollutan	U.S. DOT - Appendix B - Severe Marine Pollutants	United Kingdom - The Red List:
CALCIUM PERMANGANATE	Not Listed	Not Listed	Not Listed

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Components	Germany VCI (WGK)	World Health Organization (WHO) - Drinking Water	Ecotoxicity - Fish Species Data
CALCIUM PERMANGANATE	Not Listed	Not Listed	Not Listed
<u> </u>			
Components	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Microtox Data	Ecotoxicity - Water Flea Data
CALCIUM PERMANGANATE	Not Listed	Not Listed	Not Listed
Components	EPA - ATSDR Priority List	EPA - HPV Challenge	California - Priority Toxic
	-	Program Chemical List	Pollutants
CALCIUM PERMANGANATE	Not Listed	Not Listed	Not Listed
Components	California - Priority Toxic P	Pollutants California - Pr	iority Toxic Pollutants
CALCIUM PERMANGANATE	Not Listed	Not Listed	•

# Not Listed Not Listed

## 11. TRANSPORT INFORMATION

#### IMDG/IMO

**Proper shipping name:** Permanganates, inorganic, n.o.s.

IMDG - Hazard ClassificationsNot ApplicableIMDG - Marine PollutantsNot ApplicableIMDG - Marine PollutantsNot ApplicableIMDG - Regulated SubstancesNot ApplicableIMDG - Severe Marine PollutantsNot Applicable

#### **IMO-labels:**

Packing group:

**Proper shipping name:** Permanganates, inorganic, n.o.s.

**UN/Id No:** 1482

## ADR/RID

Australia Hazardous Statement: Hazardous according to criteria of NOHSC

Hazard Class 5.1

Item: CALCIUM PERMANGANATE

ADR/RID-labels: Oxidizer
UN/Id No: 1482
Emergency Action Code (Hazchem code): 1Y

**Proper shipping name:** Permanganates, inorganic, n.o.s.

## ICAO:

Hazard Class 5.1 Packing group:

**Proper shipping name:** Permanganates, inorganic, n.o.s.

## 12. REGULATORY INFORMATION

#### International inventories:

**CALCIUM PERMANGANATE** 

Australia (AICS): Not Present

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EU EINECS List - Not Present

Indication of Danger: O - Oxidizing.



Risk Phrases: R 9 - Explosive when mixed with combustible material.

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Safety Phrases: S13 - Keep away from food, drink and animal feeding stuffs.

S27 - Take off immediately all contaminated clothing.S16 - Keep away from sources of ignition - No smoking.

Poisons schedule No. (Aust)/Toxic Substance (NZ): Not required

## 13. OTHER INFORMATION

Prepared by: Health & Safety

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**End of Safety Data Sheet** 

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