

## Catalog Number: 208841

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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.			
Telephone Number: Fax Number:	(02) 9838 7422 (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: Catalog Number: Synonyms:		CHROMIUM CARBONYL 208841 Chromium Hexacarbonyl; Hexacarbonyl chromium
UN/Id No: Proper shipping name: IATA Hazard Label(s): Hazard Class - Subsidiary risk: Packing group:		2811 Toxic solid, organic, n.o.s. Toxic 6.1 Toxic substances - oral No Subsidiary Risk allocated II
Emergency Action Code (Ha Poisons schedule No. (Aust Recommended use:		2XE S5 Caution. S6 Poison. Research product for non-human use
Component CHROMIUM CARBONYL 13007-92-6 (100)	Australia (AICS): Present	

# **3. PHYSICAL DESCRIPTION/PROPERTIES**

Appearance and Odor	Steel-grey, lustrous metal; odorless; available as lumps, granules, powder or high purity single crystals.
Physical state:	Solid
Formula:	C6CrO6
Molecular weight:	52
Boiling point/range:	2642 °C (4788 °F)
Melting point/range:	1900 °C (3452 °F)
Density:	7.2 (water = 1)

**HAZARDOUS** 

Vapor pressure:	Practically zero at room temperature
	1 mm Hg at 1616 °C
Solubility (in water):	Insoluble
Flash point:	Not determined
Autoignition temperature:	Not determined
Flammable limits in air - lower	Not determined
(%):	
Flammable limits in air - upper	Not determined
(%):	

# 4. INGREDIENTS

Components	CAS Number	Weight %	EC No.	Classification
CHROMIUM CARBONYL	13007-92-6	100	235-852-4	Xn; T

# 5. HAZARDS IDENTIFICATION

#### Australia Hazardous Statement: Hazardous according to criteria of NOHSC



## Indication of Danger:

Xn - Harmful. T - Toxic.

R40/22 - Harmful: possible risk of irreversible effects if swallowed.

#### Safety Phrases:

S28 - After contact with skin, wash immediately with plenty of water.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S53 - Avoid exposure - obtain special instructions before use.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Category of Danger: Harmful, Toxic, Carc. cat. 3

Poisons schedule No. (Aust)/Toxic Substance (NZ): S5 Caution. S6 Poison.

## 6. HEALTH HAZARD INFORMATION

#### **HEALTH EFFECTS**

EMERGENCY OVERVIEW:	Toxic: danger of very serious irreversible effects if swallowed. May also have serious irreversible effects through skin contact or inhalation.
Principle routes of exposure:	Skin
Inhalation:	Harmful: possible risk of irreversible effects through inhalation.
Ingestion:	Toxic: danger of very serious irreversible effects if swallowed.
Skin contact:	Harmful: danger of serious damage to health by prolonged skin contact.
Eye contact:	Risk of serious damage to eyes
Statements of hazard	Toxic if swallowed

Components	Australian Exposure Standards - Carcinogens	Australia - Exposure Standards - Short
CHROMIUM CARBONYL	Not Listed	Not Listed
Components	Australia - Exposure Standards - Skin E	Australia - Exposure Standards - Time W
CHROMIUM CARBONYL	Not Listed	0.5 mg/m³ TWA

### **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. Never give anything by mouth to an unconscious person. Consult a physician Drink 1 or 2 glasses of water. Induce vomiting if person is conscious.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Protection of first-aiders:	No information available
Notes to physician:	None
Medical conditions aggravated exposure:	by None known

## 7. PRECAUTIONS FOR USE

**Section 8 Notes:** TWA - The time-weighted average airborne concentration over an eight-hour working day, for a fiveday 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: Self-contained breathing apparatus Hand protection: Pvc disposable gloves Skin and body protection: Impervious clothing Long sleeved clothing Eye protection: Safety glasses Hygiene measures: Avoid contact with skin, eyes and clothing.



# 8. SAFE HANDLING INFORMATION

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 containers tightly closed in a cool, well-ventilated place. Keep container tightly closed in a dry and well-ventilated place.

Storage:

Stability: Polymerization: Hazardous decomposition products:	Stable under recon None under norma Chromium (Cr-)	nmended storage conditions. I processing.
Materials to avoid: Conditions to avoid:	- Exposure to air or r	moisture over prolonged periods.
Spills and Disposal:		
Personal precautions: Environmental precautions: Methods for cleaning up: Waste from residues / unused products: Contaminated packaging:		Use personal protective equipment. Prevent product from entering drains. Sweep up and shovel into suitable containers for disposal. 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. Do not re-use empty containers
Fire/Explosion Hazards:		
Suitable extinguishing media:		Use media appropriate for the surrounding fire. Do not use carbon dioxide.
Specific hazards:		Slight flammability. May explode when heated above 210°C
Unusual hazards:		None known
Special protective equipment fo	r firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
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
CHROMIUM CARBONYL	GB5075000	Oral LD50 Rat : 230 mg/kg
		Oral LD50 Mouse : 150 mg/kg

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:	Possible carcinogen		
Mutagenic effects:	No data is available on the product itself.		
Reproductive toxicity:	No data is available on the product itself.		
Components	NIOSH - Health Effects	NIOSH - Target Organs	
CHROMIUM CARBONYL	Pulmonary effects	respiratory system, skin, eyes	

# **10. ECOLOGICAL INFORMATION**

Mobility: Bioaccumulation: No data available No data available

Ecotoxicity effects:	No data available
Aquatic toxicity:	May cause long-term adverse effects in the aquatic environment.

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

Components	Germany VCI (WGK)	World Health Organization (WHO) - Drinking Water	Ecotoxicity - Fish Species Data
CHROMIUM CARBONYL	Not Listed	0.05 mg/L (Provisional)	Not Listed

Components	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Microtox Data	Ecotoxicity - Water Flea Data
CHROMIUM CARBONYL	Not Listed	Not Listed	Not Listed
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Components	EPA - ATSDR Priority List	FPA - HPV Challenge	California - Priority Toxic
Components	EPA - ATSDR Priority List	EPA - HPV Challenge Program Chemical List	California - Priority Toxic Pollutants

Components	California - Priority Toxic Pollutants	California - Priority Toxic Pollutants
CHROMIUM CARBONYL	Not Listed	Not Listed

**11. TRANSPORT INFORMATION** 

Toxic solid, organic, n.o.s.

n.o.s.

Hazardous according to criteria of NOHSC

CHROMIUM CARBONYL

Toxic solid, organic, n.o.s.

Not Applicable

Not Applicable

Not Applicable Not Applicable

Not Applicable

#### IMDG/IMO

Proper shipping name:

IMDG - Hazard Classifications IMDG - Marine Pollutants IMDG - Marine Pollutants IMDG - Regulated Substances IMDG - Severe Marine Pollutants

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

Packing group:	II
Proper shipping name:	Toxic solid, organic,
UN/Id No:	2811

## ADR/RID

Australia Hazardous Statement: Hazard Class Item: ADR/RID-labels: UN/Id No: Emergency Action Code (Hazchem code): Proper shipping name:

## ICAO:

Hazard Class	6.1
Packing group:	II
Proper shipping name:	Toxic solid, organic, n.o.s.

6.1

Toxic

2811

2XE

# **12. REGULATORY INFORMATION**

#### International inventories:

CHROMIUM CARBONYL Australia (AICS): Present **Inventory - China:** Present **EU EINECS List -**235-852-4; C6CrO6 Korean KECL: KE-05990 Philippines PICCS: Present Indication of Danger: Xn - Harmful. T - Toxic.

## Risk Combination Phrases

R40/22 - Harmful: possible risk of irreversible effects if swallowed.

Safety Phrases: S28 - After contact with skin, wash immediately with plenty of water. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). S53 - Avoid exposure - obtain special instructions before use.

#### Safety Combination Phrases:

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Poisons schedule No. (Aust)/Toxic Substance (NZ): S5 Caution. S6 Poison.

# **13. OTHER INFORMATION**

#### Prepared by: Health & Safety

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#### End of Safety Data Sheet