

# HAZARDOUS

Catalog Number: 201927

Revision date: 18-Mar-2005

Australia Hazardous Statement: Hazardous according to criteria of NOHSC

| 1. COMPANY DETAILS                   |   |  |
|--------------------------------------|---|--|
| Supplier:                            | MP Biomedicals Australasia Pty Limited<br>Unit 12, 167 Prospect Hwy.<br>Seven Hills, NSW 2147 Aust. |  |
| Telephone Number:<br>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<br>(ABN): | 31 106 467 109  |  |

# 2. IDENTIFICATION

Product name: Catalog Number: Synonyms:

UN/Id No: Proper shipping name: IATA Hazard Label(s): Hazard Class

Subsidiary risk: Packing group:

Emergency Action Code (Hazchem code): Poisons schedule No. (Aust)/Toxic Substance (NZ): Recommended use:

Solid

COBALTOUS CYANIDE 3H2O 201927 Cobalt cyanide; Cobalt dicyanide; Cobalt (II) cyanide

1588 Cyanides, inorganic, solid, n.o.s. Toxic 6.1 Toxic substances - oral No Subsidiary Risk allocated III

2X S6 Poison. Research product for non-human use

| Component         | Australia (AICS): |
|-------------------|-------------------|
| COBALTOUS CYANIDE | Present           |
| 542-84-7 (100)    |                   |

3. PHYSICAL DESCRIPTION/PROPERTIES

Physical state: Formula: Molecular weight: Boiling point/range: Melting point/range: Density: Vapor pressure: Solubility (in water): Flash point: Catalog Number: 201927

C2CoN2 110.967 Not determined Not determined Not determined Not determined Not determined Product name: COBALTOUS CYANIDE 3H2O Autoignition temperature:Not determinedFlammable limits in air - lowerNot determined(%):Not determined(%):Not determined

# 4. INGREDIENTS

| Components        | CAS Number | Weight % | EC No.    | Classification |
|-------------------|------------|----------|-----------|----------------|
| COBALTOUS CYANIDE | 542-84-7   | 100      | 208-830-7 | T; N           |

# **5. HAZARDS IDENTIFICATION**

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



#### Indication of Danger:

N - Dangerous For The Environment. T - Toxic.

#### **Risk Phrases:**

R40 - Limited evidence of a carcinogenic effect.

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R42/43 - May cause sensitization by inhalation and skin contact.

#### Safety Phrases:

S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

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).

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

Category of Danger: Dangerous for the environment, Toxic, Carc. cat. 2, Respiratory Sensitizer, Skin Sensitizer

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

## 6. HEALTH HAZARD INFORMATION

#### **HEALTH EFFECTS**

| EMERGENCY OVERVIEW:           | Harmful to flora, fauna, soil organisms and aquatic organisms. Toxic: dat<br>serious irreversible effects if swallowed. May also have serious irreversi<br>through skin contact or inhalation. Possible Carcinogen May cause sens<br>skin contact May cause allergic respiratory reaction. | ible effects    |
|-------------------------------|--|-----------------|
| Principle routes of exposure: | Skin   |                 |
| Inhalation:                   | May be toxic via inhalation of dust. May cause allergic respiratory reaction   | on              |
| Ingestion:                    | Toxic: danger of very serious irreversible effects if swallowed.   |                 |
| Skin contact:                 | Toxic: danger of serious damage to health by prolonged skin contact. M absorbed through skin May cause allergic skin reaction  | lay be fatal if |
| Catalog Number: 201927        | Product name: COBALTOUS CYANIDE 3H2O   | Page 2 of 6     |

Eye contact: Statements of hazard

#### Avoid contact with eyes Toxic if swallowed MAY BE FATAL IF ABSORBED THROUGH SKIN. MAY CAUSE ALLERGIC RESPIRATORY REACTION. MAY CAUSE ALLERGIC SKIN REACTION.

| Components        | Australian Exposure Standards -<br>Carcinogens | Australia - Exposure Standards - Short |
|-------------------|--|--|
| COBALTOUS CYANIDE | Not Listed                                     | Not Listed                             |

| Components        | Australia - Exposure Standards - Skin E | Australia - Exposur          | e Standards - Time W |
|-------------------|---|------------------------------|----------------------|
| COBALTOUS CYANIDE | Not Listed                              | = 0.05 mg/m <sup>3</sup> TWA | metal dust and fume  |

### 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 exposure: | by None known   |

# 7. PRECAUTIONS FOR USE

|                   | Australian Exposure | Australian Exposure     | Australian List of           |
|-------------------|---------------------|-------------------------|------------------------------|
|                   | Standards - TWA     | Standards - Carcinogens | Designated Hazardous         |
| COBALTOUS CYANIDE |                     |                         | Self classification required |

**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.

#### PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: Self-contained breathing apparatus
Hand protection: Pvc disposable gloves
Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against this potential effect.
Eye protection: Safety glasses

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



8. SAFE HANDLING INFORMATION

Storage:

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#### MP Biomedicals Australasia Pty Limited

#### ROOM TEMPERATURE

| Handling:<br>Safe handling advice: | Use only in area provided with appropriate exhaust ventilation.<br>Wear personal protective equipment. |
|------------------------------------|--|
| Stability:                         | Stable under recommended storage conditions.   |
| Polymerization:                    | None under normal processing.  |
| Hazardous decomposition products:  | Nitrogen oxides (NOx)/ammonia/CN-  |
| Materials to avoid:                | Oxidising agents Acids Bleach  |
| Conditions to avoid:               | Exposure to air or moisture over prolonged periods.  |
| Spills and Disposal:               |  |
| Personal precautions:              | Use personal protective equipment.   |

 Personal precautions:
 C

 Environmental precautions:
 P

 Methods for cleaning up:
 S

 Waste from residues / unused products:
 V

 F
 F

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

Contaminated packaging:

#### **Fire/Explosion Hazards:**

Suitable extinguishing media: Specific hazards: Unusual hazards: Special protective equipment for firefighters: Use dry chemical, CO2, water spray or "alcohol" foam Burning produces irritant fumes. None known As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear Water mist may be used to cool closed containers.

#### Specific methods:

### 9. TOXICOLOGICAL INFORMATION

#### **Product Information**

#### Acute toxicity

| Components             | RTECS Number:   | Selected LD50s and LC50s                       |  |  |
|------------------------|---|--|--|--|
| COBALTOUS CYANIDE      | Not Available = 6171 mg/kg Oral LD50 Rat  |  |  |  |
| Chronic toxicity:      | Chronic exposure may cau unconsciousness.   | se nausea and vomiting, higher exposure causes |  |  |
| 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.    |  |  |
| Components             | NIOSH - Health Effects  | NIOSH - Target Organs                          |  |  |
| COBALTOUS CYANIDE      |   | respiratory system, skin                       |  |  |

# **10. ECOLOGICAL INFORMATION**

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

| Components        | U.S. DOT - Appendix B -<br>Marine Pollutan | U.S. DOT - Appendix B -<br>Severe Marine Pollutants | United Kingdom - The Red<br>List:         |
|-------------------|--|---|---|
| COBALTOUS CYANIDE | Not Listed                                 | Not Listed  | Not Listed                                |
| Components        | Germany VCI (WGK)                          | World Health Organization<br>(WHO) - Drinking Water | Ecotoxicity - Fish Species<br>Data        |
| COBALTOUS CYANIDE | Not Listed                                 | Not Listed  | Not Listed                                |
| Components        | Ecotoxicity - Freshwater<br>Algae Data     | Ecotoxicity - Microtox Data                         | Ecotoxicity - Water Flea<br>Data          |
| COBALTOUS CYANIDE | Not Listed                                 | Not Listed  | Not Listed                                |
| Components        | EPA - ATSDR Priority List                  | EPA - HPV Challenge<br>Program Chemical List        | California - Priority Toxic<br>Pollutants |
| COBALTOUS CYANIDE | Rank (of 275): 049                         | Not Listed  | Not Listed                                |
| Components        | California - Priority Toxic P              | Pollutants California - Pr                          | iority Toxic Pollutants                   |

**11. TRANSPORT INFORMATION** 

#### IMDG/IMO

#### Proper shipping name:

COBALTOUS CYANIDE

| IMDG - Hazard Classifications          |
|--|
| IMDG - Marine Pollutants               |
| IMDG - Marine Pollutants               |
| IMDG - Regulated Substances            |
| <b>IMDG - Severe Marine Pollutants</b> |

Not Listed

**IMO-labels:** 

| Packing group:        |
|-----------------------|
| Proper shipping name: |
| UN/Id No:             |

#### ADR/RID

Australia Hazardous Statement: Hazard Class Item: ADR/RID-labels: UN/ld No: Emergency Action Code (Hazchem code): Proper shipping name: Cyanides, inorganic, solid, n.o.s. Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable

Not Listed

III Cyanides, inorganic, solid, n.o.s. 1588

Hazardous according to criteria of NOHSC 6.1 COBALTOUS CYANIDE 3H2O Miscellaneous 1588 2X Cyanides, inorganic, solid, n.o.s.

# ICAO:

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| Hazard Class          | 6.1                                |
|-----------------------|------------------------------------|
| Packing group:        |                                    |
| Proper shipping name: | Cyanides, inorganic, solid, n.o.s. |

## **12. REGULATORY INFORMATION**

#### International inventories:

| COBALTOUS CYANIDE  |           |
|--------------------|-----------|
| Australia (AICS):  | Present   |
| Inventory - China: | Present   |
| EU EINECS List -   | 208-830-7 |
|                    | 231-158-0 |
| Korean KECL:       | KE-06060  |
|                    | KE-06092  |

# Philippines PICCS: Present

Indication of Danger: N - Dangerous For The Environment.

T - Toxic.



Risk Phrases: R40 - Limited evidence of a carcinogenic effect.

#### **Risk Combination Phrases**

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R42/43 - May cause sensitization by inhalation and skin contact.

**Safety Phrases:** S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets. 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).

#### **Safety Combination Phrases:**

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

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

### **13. OTHER INFORMATION**

#### Prepared by: Health & Safety

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### End of Safety Data Sheet