



chem-supply

# Safety Data Sheet

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Infosafe No™	1CH9Z	Issue Date : August 2018	RE-ISSUED by CHEMSUPP
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Product Name : **CHROMIUM Metal**

Not classified as hazardous

## 1. Identification

**GHS Product** CHROMIUM Metal**Identifier****Company Name** CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)**Address** 38 - 50 Bedford Street GILLMAN  
SA 5013 Australia**Telephone/Fax** Tel: (08) 8440-2000**Number** Fax: (08) 8440-2001**(24 hour a day available)** CHEMCALL: 1800 127 406 (Australia) / +64-4-917-9888 (International)**Recommended use of the chemical and restrictions on use** Component of stainless steels and high temperature alloys, plating, coatings, inorganic pigments, manufactured metal goods and laboratory reagent.**Other Names****Name****Product Code**

CHROMIUM Metal Powder AR

CA232

CHROMIUM Metal Powder LR

CL232

**Other Information**

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

## 2. Hazard Identification

**GHS classification of the substance/mixture** Not classified as hazardous according to the Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004) 3rd Edition, Safe Work Australia.**Other Information** Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Chromium dust can accumulate in the lungs.

## 3. Composition/information on ingredients

**Chemical** Solid**Characterization****Ingredients****Name****CAS****Proportion****Hazard Symbol****Risk Phrase**

Chromium

7440-47-3

100 %

## 4. First-aid measures

**Inhalation** If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.**Ingestion** Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.**Skin** Immediately remove contaminated clothing and wash affected area with water for at least 15 minutes. Ensure contaminated clothing is washed before re-use. Seek medical advice /attention depending on the severity.**Eye contact** Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.**First Aid Facilities** Eye wash station, safety shower and normal washroom facilities.**Advice to Doctor** Treat symptomatically based on judgement of doctor and individual reactions of the patient.**Other Information** For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

## 5. Fire-fighting measures

**Hazards from Combustion Products** Oxides of chromium.



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**Specific Methods** Do not use carbon dioxide, water or foam which may form an explosive mixture with powdered chromium.

**Specific hazards arising from the chemical** May burn but do not ignite readily. Risk of dust explosion.

**Precautions in connection with Fire** Wear SCBA and structural firefighter's uniform.

## 6. Accidental release measures

**Personal Precautions** Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms. Avoid dust build up.

**Personal Protection** Wear protective clothing specified for normal operations (see Section 8)

**Clean-up Methods - Small Spillages** Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations.

**Environmental Precautions** Prevent from entering into drains, ditches or rivers.

## 7. Handling and storage

**Precautions for Safe Handling** Avoid prolonged or repeated contact with skin, eyes and clothing. Avoid ingestion and inhalation of material. Avoid generation or accumulation of dusts. Only use in well-ventilated areas.

**Conditions for safe storage, including any incompatibilities** Store in a cool, dry place. Store away from oxidizing agents. Keep containers closed at all times. Keep in a well-ventilated place

## 8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
<b>Other Exposure Information</b>	Chromium			0.5		
	These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. A time weighted average (TWA) has been established for Chromium (metal) (Safe Work Aust) of 0.5 mg/m3. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.					
<b>Appropriate engineering controls</b>	In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. These methods should be used in preference to personal protective equipment.					
<b>Respiratory Protection</b>	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.					
<b>Eye Protection</b>	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.					
<b>Hand Protection</b>	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.					
<b>Personal Protective Equipment</b>	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.					
<b>Footwear</b>	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.					
<b>Body Protection</b>	Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection					



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**Hygiene Measures** against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals. Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

## 9. Physical and chemical properties

<b>Form</b>	Solid
<b>Appearance</b>	Light grey metal
<b>Odour</b>	Odourless.
<b>Melting Point</b>	1887.5 °C
<b>Boiling Point</b>	2657 °C
<b>Solubility in Water</b>	Insoluble.
<b>Specific Gravity</b>	7.2
<b>Molecular Weight</b>	52.00
<b>Other Information</b>	Soluble in acids (except nitric) and strong alkalies.

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable.
<b>Conditions to Avoid</b>	Heat and incompatible materials.
<b>Incompatible Materials</b>	Strong oxidising agents, acids, fluorine, halogen-halogen compounds, oxides of sulfur and nitrogen, carbon dioxide, alkalies and alkali carbonates.
<b>Possibility of hazardous reactions</b>	A heated mixture of chromium powder and carbon dioxide may be ignitable and explosive. Reacts violently with strong oxidising agents causing fire and explosion hazard.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. Toxicological Information

<b>Ingestion</b>	May be harmful if swallowed. May effect gastrointestinal and urinary system.
<b>Inhalation</b>	May cause irritation to mucous membranes and upper respiratory tract. May cause coughing and fibrosis.
<b>Skin</b>	May cause skin irritation.
<b>Eye</b>	May cause irritation, redness, tearing, blinking and mild temporary pain.
<b>Carcinogenicity</b>	Not classified as a human carcinogen.
<b>Chronic Effects</b>	Possible risk of irreversible effects. Prolonged ingestion may cause stomach pains, vomiting, diarrhea, liver damage and kidney damage. Repeated or prolonged contact with some chromium compounds may cause skin sensitisation. Fibrosis of the lungs may develop to pneumoconiosis.
<b>Mutagenicity</b>	No evidence of mutagenic properties.

## 12. Ecological information

<b>Ecological Information</b>	Due to poor solubility no ecological problems are expected.
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## 13. Disposal considerations

<b>Disposal Considerations</b>	Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and disposed of according to relevant local, state and federal government regulations.
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## 14. Transport information

<b>Transport Information</b>	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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## 15. Regulatory information

<b>Regulatory Information</b>	Listed in the Australian Inventory of Chemical Substances (AICS).
<b>Poisons Schedule</b>	Not Scheduled

## 16. Other Information



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 Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.  
 Safe Work Australia, 'Hazardous Substances Information System, 2005'.  
 Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.  
 Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.

**Contact  
Person/Point**

Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**  
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