



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 Identifier CHROMIUM Metal

Company Name CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

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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
CHROMIUM Metal Powder LR

CA232
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 Characterization** Solid**Ingredients**

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
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	
	Chromium			0.5		
Other Exposure Information	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.					
Appropriate engineering controls	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.					
Respiratory Protection	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.					
Eye Protection	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.					
Hand Protection	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.					
Personal Protective Equipment	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.					
Footwear	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.					
Body Protection	Clean clothing or protective clothing should be worn, preferably with and 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

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

10. Stability and reactivity

Chemical Stability	Stable.
Conditions to Avoid	Heat and incompatible materials.
Incompatible Materials	Strong oxidising agents, acids, fluorine, halogen-halogen compounds, oxides of sulfur and nitrogen, carbon dioxide, alkalis and alkali carbonates.
Possibility of hazardous reactions	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.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Ingestion	May be harmful if swallowed. May effect gastrointestinal and urinary system.
Inhalation	May cause irritation to mucous membranes and upper respiratory tract. May cause coughing and fibrosis.
Skin	May cause skin irritation.
Eye	May cause irritation, redness, tearing, blinking and mild temporary pain.
Carcinogenicity	Not classified as a human carcinogen.
Chronic Effects	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.
Mutagenicity	No evidence of mutagenic properties.

12. Ecological information

Ecological Information	Due to poor solubility no ecological problems are expected.
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13. Disposal considerations

Disposal Considerations	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

Transport Information	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

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

16. Other Information



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Safety Data Sheet

infosafe
CS: 1.7.2

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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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