



Infosafe No™	1CH93	Issue Date : March 2014	RE-ISSUED by CHEMSUPP
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Product Name : **CHROMIUM (III) POTASSIUM SULFATE Dodecahydrate**

Classified as hazardous

1. Identification

GHS Product Identifier	CHROMIUM (III) POTASSIUM SULFATE Dodecahydrate		
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)		
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia		
Telephone/Fax Number	Tel: (08) 8440-2000 Fax: (08) 8440-2001		
Recommended use of the chemical and restrictions on use	Tanning (chrome-tan liquors), textile dye (mordant), photography (fixing bath), ceramics, rendering glue and gum insoluble, waterproofing fabrics, manufacture of ink and other chromium salts; laboratory reagent.		
Other Names	Name	Product Code	
	CHROMIUM POTASSIUM SULFATE Dodecahydrate LR Chrome Alum, Chrome Potash Alum, Potassium Chromium Sulfate, Alum Chrome, Potassium chromium (III) sulfate	CL039	
Other Information	EMERGENCY CONTACT NUMBER: +61 08 8440 2000 Business hours: 8:30am to 5:00pm, Monday to Friday.		

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	Eye Damage/Irritation: Category 2 Skin Corrosion/Irritation: Category 2
Signal Word (s)	WARNING
Hazard Statement (s)	H315 Causes skin irritation. H319 Causes serious eye irritation.
Pictogram (s)	Exclamation mark



Precautionary statement – Prevention	P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement – Response	P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.

3. Composition/information on ingredients

Chemical Characterization	Solid				
Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Chromium (III) potassium sulfate	7788-99-0	100 %	Xi	R36/37/38

4. First-aid measures



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Inhalation	Remove victim to fresh air. Seek urgent medical assistance.
Ingestion	Rinse mouth thoroughly with water immediately. Give plenty of water to drink. Do not induce vomiting. Seek medical attention.
Skin	Wash affected areas with copious quantities of water. Remove contaminated clothing and wash before re-use. Seek medical advice.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical attention.
Advice to Doctor	Treat symptomatically or consult a Poisons Information Centre.
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	Sulfur oxides.
Specific Methods	No limitations to the type of extinguishing media. Use appropriate media for surrounding fire.
Specific hazards arising from the chemical	Material does not burn. Fire or heat may produce irritating, poisonous and/or corrosive gases.

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.
Personal Protection	Use personal protective equipment listed in Section 8.
Clean-up Methods - Small Spillages	Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.
Environmental Precautions	Prevent from entering into drains, ditches, rivers or the sea.

7. Handling and storage

Precautions for Safe Handling	Only use in well-ventilated areas. Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.
Conditions for safe storage, including any incompatibilities	Store in cool place and out of direct sunlight. Store in well ventilated area. Keep containers closed at all times.

8. Exposure controls/personal protection

Other Exposure Information	A time weighted average (TWA) has been established for Chromium (III) compounds (as Cr) (Worksafe Aust) of 0.5 mg/m ³ . 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.
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	Rubber or plastic gloves recommended. Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.
Body Protection	Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.



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Hygiene Measures 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	Dark, violet-red crystals; efflorescent.
Odour	Odourless.
Melting Point	89 °C
Boiling Point	Loses 10H ₂ O @ 100 °C; loses all water @ 400 °C.
Solubility in Water	Very soluble (250 g/L @ 25 °C).
Solubility in Organic Solvents	Practically insoluble in alcohol.
Specific Gravity	1.83
pH	~ 3 (50 g/l, H ₂ O, 20 °C)
Flammability	Non combustible material.
Molecular Weight	499.41
Other Information	The aqueous solution is violet when cold, green when hot. The violet colour returns after a few weeks at room temperature.

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons. Aqueous solution slowly becomes green on heating and recovers reddish-violet colours on cooling.
Conditions to Avoid	Moisture. High temperatures. Incompatibles.
Incompatible Materials	Strong oxidising agents, aluminium and magnesium.
Hazardous Decomposition Products	Toxic fumes of sulfur oxides, potassium oxides and chromium oxides.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Ingestion	Harmful if swallowed. Causes irritation to the gastrointestinal tract. Large oral doses may cause dizziness, intense thirst, abdominal pain, vomiting and shock. Death may occur from renal failure.
Inhalation	Harmful by inhalation. Causes irritation to the upper respiratory tract and mucous membranes. Symptoms may include coughing, shortness of breath. May cause headache, dyspnea and fever. May also cause tracheobronchial irritation and pulmonary edema.
Skin	May cause sensitization in contact with skin. Causes irritation to skin. Symptoms include redness, itching and pain.
Eye	Causes irritation, redness and pain.
Carcinogenicity	Not classified as a human carcinogen.
Chronic Effects	Prolonged or repeated exposure may cause skin dermatitis and ulceration and eye damage. Prolonged or repeated inhalation of dust may cause perforation of the nasal septum.
Mutagenicity	No evidence of mutagenic properties.

12. Ecological information

Ecotoxicity	Quantitative data on the ecological effect of this product are not available.
Persistence and degradability	No persistence/degradability data available for this product.
Mobility	No mobility data available for this product.

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



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Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG); by the IATA Air Transport Dangerous Goods Regulations; or by the IMDG (International Maritime Dangerous Goods) Code.
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15. Regulatory information

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

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons No. 4', Commonwealth of Australia, June 2013. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007. 'Labelling of Hazardous Workplace Chemicals, Code of Practice' Safe Work Australia. Standards Australia 'AS 1940-2004 The Storage and Handling of Flammable and Combustible Liquids. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010. Worksafe Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)]'. Worksafe Australia, 'Hazardous Substances Information System, 2005'. Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Hazardous Substances (2011)'. Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]'.
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Contact**Person/Point**Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**

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Empirical Formula & Structural Formula CrK(SO₄)₂ .12H₂O**Other Information**

Previously labelled as:

R36/37/38 Irritating to eyes, respiratory system and skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36 Wear suitable protective clothing.

...End Of MSDS...

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