

Infosafe No™ 1CH1U Issue Date : January 2021 RE-ISSUED by CHEMSUPP

Product Name **CHROMIUM (III) CHLORIDE Hexahydrate**

Classified as hazardous

1. Identification

GHS Product Identifier CHROMIUM (III) CHLORIDE Hexahydrate

Company Name CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)

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Recommended use of the chemical and restrictions on use Chromium salts, intermediates, textile mordant, chromium plating including vapour plating, preparation of sponge chromium, catalyst for polymerising olefins, waterproofing and laboratory reagent.

Other Names	<u>Name</u>	<u>Product Code</u>
	CHROMIUM (III) CHLORIDE Hexahydrate LR	CL126
	Chromium trichloride, Chromic chloride, Chromium sesquichloride	

Other Information

ChemSupply Australia 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 ChemSupply Australia 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 ChemSupply Australia 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 Corrosive to Metals: Category 1
Acute Toxicity - Oral: Category 4
Skin sensitization: Category 1B
Hazardous to the Aquatic Environment - Long-Term Hazard: Category 2

Signal Word (s) WARNING

Hazard Statement (s) H290 May be corrosive to metals.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Pictogram (s) Corrosion, Exclamation mark, Environment



Precautionary statement – Prevention

P234 Keep only in original container.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves.

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Precautionary

statement – Response P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.
P391 Collect spillage.

Precautionary statement – Storage P406 Store in corrosive resistant/ ... container with a resistant inner liner.

Precautionary statement – Disposal P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Chromium (III) chloride hexahydrate	10060-12-5	97-100 %

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. Immediately obtain 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 immediate medical advice.

Skin Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical advice if effects persist.

Eye contact Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If persistent irritation occurs, obtain medical attention.

First Aid Facilities Maintain eyewash fountain and safety shower in work area.

Advice to Doctor Treat symptomatically based on judgement of doctor and individual reactions of the patient.

Other Information For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Hazards from Combustion Products May liberate toxic fumes in fire including hydrogen chloride.

Specific Methods Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media.
Small fire: Use dry chemical, CO2, water spray or foam.
Large fire: Use water spray, fog or foam.
If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.

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.

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.

7. Handling and storage

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Precautions for Safe Handling 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 Keep container tightly closed and dry, away from direct sunlight. Store at room temperature (15 - 25 °C).

Unsuitable Materials Corrosive to Metals: Category 1
H290 May be corrosive to metals.

8. Exposure controls/personal protection

Occupational exposure limit values	<u>Name</u>	STEL		TWA		<u>Footnote</u>
		<u>mg/m3</u>	<u>ppm</u>	<u>mg/m3</u>	<u>ppm</u>	
	Chromium (III) chloride hexahydrate			0.5		Chromium (III) compounds (as Cr)
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 (III) compounds (as Cr) (Safe Work Australia) 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	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	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.					
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 an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.					
Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.					

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9. Physical and chemical properties

Form	Solid
Appearance	Greenish-black or violet deliquescent crystals. Dilute aqueous solutions are violet. Concentrated aqueous solutions are green.
Odour	Slightly pungent.
Melting Point	80-83 °C
Solubility in Water	Soluble (590 g/l at 20 °C).
Solubility in Organic Solvents	Soluble in alcohol. Slightly soluble in acetone. Insoluble in ether.
Specific Gravity	1.76
pH	2 - 3 (50 g/l H ₂ O)
Vapour Pressure	low
Flammability	Non combustible material.
Molecular Weight	266.45

10. Stability and reactivity

Chemical Stability	Stable under normal temperatures and pressures.
Conditions to Avoid	Strong heating.
Incompatible Materials	Fluorine, alkali metals and strong oxidizing agents.
Hazardous Decomposition Products	Hydrogen chloride gas
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Toxicology Information	No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. If mishandled or overexposed to this product the following symptoms or effects may occur.
Acute Toxicity - Oral	LD50 (rat): 1790 mg/kg.
Ingestion	Harmful if swallowed. Causes burns in oesophagus and stomach. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Only slight absorption (< 1 %) via gastrointestinal tract in comparison with hexavalent chromium. The greater, nonabsorbed part of chromium(III) is eliminated with the faeces.
Inhalation	May cause slight respiratory tract irritation.
Skin	May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.
Eye	May cause mechanical irritation to eyes.
Respiratory sensitisation	Not classified based on available information.
Skin Sensitisation	Skin sensitization: Category 1B H317 May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified based on available information.
Carcinogenicity	Chromium[III] compounds is evaluated in the IARC Monographs (Vol. 49; 1990) as Group 3: Not classifiable as to carcinogenicity to humans. Not classified based on available information.
Reproductive Toxicity	Not classified based on available information.

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STOT-single exposure	Not classified based on available information.
STOT-repeated exposure	Not classified based on available information.
Mutagenicity	Not classified based on available information.

12. Ecological information

Ecotoxicity	Quantitative data on the ecological effect of this product are not available.
Persistence and degradability	Methods for the determination of biodegradability are not applicable to inorganic substances.
Other Adverse Effects	Adverse ecological effects cannot be excluded in the event of improper handling or disposal.
Other Precautions	Do not allow to enter waters, waste water, or soil!
Environmental Protection	Do not allow product to enter drains, waterways or sewers.
Acute Toxicity - Fish	static test LC50 - Oncorhynchus mykiss (rainbow trout) - 11.2 - 31.5 mg/l - 96 h (OECD Test Guideline 203)

13. Disposal considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be 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	All of the significant ingredients in this formulation are compliant with Australian Industrial Chemicals Introduction Scheme (AICIS) regulations. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Poisons Schedule	Not Scheduled

16. Other Information

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand. Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.
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Contact Person/Point	Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT: All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. ChemSupply Australia Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.
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Empirical Formula CrCl₃•6H₂O

**& Structural
Formula**

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