

Page: 1 of 5

Infosafe No™ 1CH5D

Issue Date :November 2020 RE-ISSUED by CHEMSUPP

Product Name POTASSIUM FERROCYANIDE Trihydrate

Not classified as hazardous

1. Identification					
GHS Product Identifier	POTASSIUM FERROCYANIDE Trihydrate				
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)				
Address	38 - 50 Bedford Street (SA 5013 Australia	GILLMAN			
Felephone/Fax Number	Tel: (08) 8440-2000				
Emergency phone number	CHEMCALL 1800 127 406	(Australia) / +64-4	4-917-9888 (International)		
E-mail Address	www.chemsupply.com.au				
Recommended use of the chemical and restrictions on use	Tempering steel, dyeing, food industry, analytica		ess engraving and lithography, in aboratory reagent.		
Other Names	Name		Product Code		
	POTASSIUM FERROCYANIDE ? POTASSIUM FERROCYANIDE ? Potassium iron (II) cyan hexacyanoferrate(II) tr:	Trihydrate AR nide, Potassium	PL039 PA039		
Other Information	or purpose. The user mus or application intended or application is recomm Chem-Supply Pty Ltd with relation to the suitabil Except to the extent pro as to the merchantable of hereby excluded. This pr of Part V, Division 2 of Chem-Supply Pty Ltd is 2	st ascertain the suppose. Prelimina mended. Any reliand h respect to any sl lity of this product ohibited at law, and quality of this pro- roduct is not sold f the Trade Practic limited to the rep.	this product is suitable for any usuatability of the product before use ary testing of the product before use ce or purported reliance upon kill or judgement or advice in ct of any purpose is disclaimed. ny condition implied by any statute oduct or fitness for any purpose is by description. Where the provision ces Act apply, the liability of lacement of supply of equivalent the goods or acquiring equivalent		
2. Hazard Identifi	cation				
GHS classification of the substance/mixture	Hazardous Substances [No	OHSC:1008(2004] 3rd	the Approved Criteria for Classifying d Edition, Safe Work Australia. ng to the Australian Dangerous Goods		
3. Composition/inf	formation on ingredients				
Ingredients	Name	CAS	Proportion		

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. Give water to drink. DO NOT INDUCE VOMITING. Seek medical advice if symptoms persist.	
Skin	Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention.	
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical advice if effects persist.	
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.	

Print Date: 9/11/2020



Page: 2 of 5

Infosafe No™	1CH5D Issue Date :November 2020 RE-ISSUED by CHEMSUPP			
Product Name	POTASSIUM FERROCYANIDE Trihydrate			
	Not classified as hazardous			
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient. Consider the effects of potassium salts upon the heart.			
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor at once.			
5. Fire-fighting m	easures			
Hazards from Combustion Products	Highly toxic fumes of cyanides, hydrogen cyanide, nitrogen oxides, carbon monoxide and carbon dioxide.			
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.			
Specific hazards arising from the chemical	Material does not burn. Runoff may pollute waterways. Fire or heat may produce irritating, poisonous and/or corrosive fumes.			
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.			
6. Accidental relea				
Personal Precautions	Avoid dust formation and avoid breathing dust. Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms. Evacuate the area of all non-essential personnel.			
Personal Protection	Wear protective clothing specified for normal operations (see 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.			
7. Handling and s	torage			
Precautions for Safe Handling	Avoid substance contact and generation and inhalation of dust.			
Conditions for safe storage, including any incompatibilities	Keep containers closed at all times. Store at room temperature (15 - 25 $^{\circ}$ C). Keep container tightly closed in a dry, well-ventilated place away from direct sunlight.			
8. Exposure contr	ols/personal protection			
Other Exposure Information	No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m3. All atmospheric contamination should be kept to as low a level as is workable. 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.			
	A time weighted average (TWA) has been established for Cyanides (as CN)(Safe Work Australia) of 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. Use in a fume cupboard if fumes of cyanides are to be released, such as upon mixing with hot concentrated acids or acid fumes, heating to decomposition, or strong irradiation with acid, basic or neutral solutions.			
Respiratory Protection	Usually is not required. Where protection is required from nuisance levels of dust or mists select respiratory protection that complies with AS 1716 - Respiratory Protective Devices and select in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels.			
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			



Page: 3 of 5

Infosafe No™	1CH5D Issue Date :November 2020 RE-ISSUED by CHEMSUPP
Product Name	POTASSIUM FERROCYANIDE Trihydrate
	Not classified as hazardous
Hand Protection	be selected and used in accordance with AS 1336. 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.
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 impervious clothing should be worn. 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

9. Physical and chemical properties

re-using.

Form	Solid
Appearance	Lemon yellow crystals or powder.
Odour	Odourless.
Melting Point	Becomes anhydrous @ 70 °C.
Boiling Point	Decomposes
Solubility in Water	211 g/L @ 20 °C
Specific Gravity	1.853 @ 17 °C
рН	8 - 10 (211 g/l, H2O, 25 °C)
Flammability	Non combustible material.
Molecular Weight	422.39
Other Information	Taste: Mild saline taste.

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons.
Conditions to Avoid	Avoid temperatures above 60 $^\circ$ C, sources of heat, direct sunlight.
Incompatible Materials	Acids, cupric nitrate, at high temperature with chromium trioxide and sodium nitrite, hydrochloric acids, nitrites, and oxidizing agents.
Possibility of hazardous reactions	Violent reaction with cupric nitrate. Mixtures with CrO3 or sodium nitrite explode on heating. Contact with acids liberates hydrogen cyanide (HCN). Contact with ammonia may be explosive.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): 3613 mg/kg (anhydrous substance), (IUCLID).
Ingestion	May cause irritation of the throat, general stomach upset and vomiting.
Inhalation	May cause irritation to respiratory tract. Symptoms may include coughing and shortness of breath.
Skin	May cause irritation, itching, scaling, reddening, or, occasionally, blistering.
Eye	May cause eye irritation.

Print Date: 9/11/2020



Page: 4 of 5

							,	
Infosafe No ^m	ICH5D	Issue D	ate :Nov	ember	2020	RE-ISSUED	by (CHEMSUPP
Product Name	POTASSIUM FE	RROCYANI	DE Trihy	drate				
		Not cla	ssified a	s hazar	dous			
Respiratory sensitisation	Not classified	based on	available	informa	tion.			
Skin Sensitisation	Not classified	based on	available	informa	tion.			
Germ cell mutagenicity	Not classified	based on	available	informa	tion.			
Carcinogenicity	Not classified	based on	available	informa	tion.			
Reproductive Toxicity	Not classified	based on	available	informa	tion.			
STOT-single exposure	Not classified	based on	available	informa	tion.			
STOT-repeated exposure	Not classified	based on	available	informa	tion.			
Chronic Effects	Due to the eff large amounts dangerous and	by persons	s suffering	g from a	heart cor	•		
Mutagenicity	Not classified	based on	available	informa	tion.			

12. Ecological information

Persistence and degradability	May persist based on information available.
Information on Ecological Effects	Harmful effect on aquatic organisms. Hazard for drinking water supplies. Will likely be mobile in the environment due to its water solubility.
Environmental Protection	Do not allow to enter waters, waste water, or soil!
Acute Toxicity - Fish	Poecilia reticulata LC50: 19 mg/l/96 h. (IUCLID)
Acute Toxicity - Daphnia	Daphnia magna EC50: 32 mg/l/96 h (anhydrous substance).(IUCLID)
Acute Toxicity - Algae	IC10 Desmodesmus subspicatus (green algae): 0.2mg/l; 4 d (IUCLID).
Acute Toxicity - Bacteria	Pseudomonas fluorescens EC10: >1000 mg/l/24 h (anhydrous substance).(IUCLID)
Other Information	May cause long-term adverse effects in the environment.

13. Disposal considerations

Disposal
ConsiderationsWhatever cannot be saved for recovery or recycling should be disposed of
according to relevant local, state and federal government regulations.

14. Transport information

Transport	Not classified as a Dangerous Good according to the Australian Code for the
Information	Transport of Dangerous Goods by Road and Rail.

15. Regulatory information

Regulatory	All of the significant ingredients in this formulation are compliant with Australian Industrial Chemicals Introduction Scheme (AICIS) regulations. Not
Information	listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Poisons Schedule	Not Scheduled

16. Other Information

Literature	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth
References	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 fot the Preparation of Safety
	Data Sheets for Hazardous Chemicals'.
	Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency



Page: 5 of 5

Infosafe No™	1CH5D Issue Date :November 2020 RE-ISSUED by CHEMSUPP
Product Name	POTASSIUM FERROCYANIDE Trihydrate
	Not classified as hazardous
Contact Person/Point	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'. Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT:
Contact Ferson/Form	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. Chem-Supply 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.
Empirical Formula & Structural Formula	K4Fe(CN)6.3H2O
	End Of MSDS
Converight in the source code	© Copyright Chemical Safety International Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Chemical Safety International Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Chemical Safety International Pty Ltd. The compilation of MSDS's displayed is the intellectual property of Chemical Safety International Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Chemical Safety International Pty Ltd.