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Infosafe No™

Issue Date : August 2016

RE-ISSUED by CHEMSUPP

Product Name : **POTASSIUM PERMANGANATE**

1CH5L

Classified as hazardou	s
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1. Identification	
GHS Product	POTASSIUM PERMANGANATE
Identifier Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)
Address	38 - 50 Bedford Street GILLMAN
Addic33	SA 5013 Australia
Telephone/Fax	Tel: (08) 8440-2000
Number	Fax: (08) 8440-2001
Recommended use of the chemical and	Oxidiser, disinfectant, deodorizer, bleach, dye, tanning, radioactive decontamination of skin, reagent in analytical chemistry, medicine (antiseptic), manufacture of organic chemicals, air and water purification,
restrictions on use	photography and laboratory reagent.
Other Names	Name Product Code
	POTASSIUM PERMANGANATE TG PT003
	POTASSIUM PERMANGANATE LR PL003
	POTASSIUM PERMANGANATE AR PA003
Other Information	Condy's crystals, Chameleon mineral 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 Identif	
GHS classification of the	Hazardous to the Aquatic Environment - Acute Hazard: Category 1 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1
substance/mixture	Oxidizing Solids: Category 2
Substance/mixture	Acute Toxicity - Oral: Category 4
Oliveral Manual (a)	Skin Corrosion/Irritation: Category 1C
Signal Word (s)	
Hazard Statement (s)	H272 May intensify fire; oxidiser. H302 Harmful if swallowed.
(3)	H314 Causes severe skin burns and eye damage.
	H400 Very toxic to aquatic life.
Distogram (a)	H410 Very toxic to aquatic life with long lasting effects.
Pictogram (s)	Flame over circle, Corrosion, Exclamation mark, Environment
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Precautionary	P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P220 Keep/Store away from clothing//combustible materials.
statement – Prevention	P220 Reep/Store away from clothing//combustible materials. P221 Take any precaution to avoid mixing with combustibles.
rievention	P260 Do not breathe dust/fume/gas/mist/vapours/spray.
	P264 Wash thoroughly after handling.
	P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment.
	P2/3 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary	Swallowed
statement –	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Response	P330 Rinse mouth.

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	Skin P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P363 Wash contaminated clothing before reuse. P310 Immediately call a POISON CENTER or doctor/physician. Inhaled P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 Immediately call a POISON CENTER or doctor/physician. Eyes P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. Fire P370+P378 In case of fire: Use flooding qualitites of water for extinction.			d clothing. Rinse	
Precautionary	P405 Store locked up.	0.1			
statement – Storage					
Precautionary	P501 Dispose of contents/cor	ntainer to an appi	roved waste dispos	al plant.	
statement – Disposal					
3. Composition/i	nformation on ingredier	nts			
Chemical	Solid				
Characterization	Nama	0.40	Duran anti-		Diale Dhuasa
Ingredients	Name	CAS	Proportion	Hazard Symbol	<u>Risk Phrase</u>
	Potassium permanganate	7722-64-7	100 %		
4. First-aid meas					
Inhalation	If inhaled, remove from conta breathing. If breathing is diffic 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	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Seek immediate medical advice.				
Eye contact	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical assistance.				
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 m	neasures				
Hazards from Combustion	Toxic gases and irritating and oxygen, oxides of potassium			etal fumes, potassium	hydroxide,
Products Specific Methods	Small fire: USE FLOODING QUANTITIES OF WATER. Do not use dry chemicals, CO2 or foam. If safe to do so, move undamaged containers from fire area. Do not move cargo if cargo has been exposed to heat.				
Specific hazards arising from the chemical	Large fire: Flood fire area with water from a protected position. Cool containers with flooding quantities of water until well after fire is out - If impossible, withdraw from area and let fire burn. Avoid getting water inside containers: a violent reaction may occur. Dam fire control water for later disposal. Will accelerate burning when involved in a fire. May explode from heating, shock, friction or contamination. Some will react explosively with hydrocarbons (fuels). May ignite combustibles (wood, paper, clothing, etc). Fire may produce irritating, poisonous, and/or corrosive gases. Containers may explode when heated. Runoff may create fire or explosion hazard.				
Hazchem Code	1Y				
Decomposition Temp.	~240 °C				

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Precautions in Wear SCBA and chemical splash suit. Structural firefighter's uniform will provide limited protection. connection with Fire

6. Accidental release measures

Spills & Disposal	Do not contaminate. Keep combustibles (wood, paper, clothing, oil, etc.) away from spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use water spray to knock down vapours or divert vapour clouds. Prevent entry into waterways, drains or
	confined areas. Prevent exposure to heat. Drv Spill
	Use clean non-sparking tools to transfer material to a clean, dry plastic container and cover loosely. Move container from spill area.
	Small Liquid Spill
	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place in a loosely-covered container for later disposal.
	Large Liquid Spill SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.
Personal	Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in
Precautions	enclosed rooms.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)

7. Handling and storage

Precautions for Safe Handling Conditions for safe storage, including any incompatabilities	Avoid contact with eyes, skin, or clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Use smallest possible amounts in designated areas with adequate ventilation. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Wear appropriate protective equipment to prevent inhalation, skin and eye contact. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Discard contaminated shoes. Ensure a high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking, smoking or using the toilet. Minimize dust generation and accumulation. Keep away from heat and all sources of ignition. Keep away from incompatibles such as combustible material, reducing agents, organic materials, metals and acids. Protect against physical damage and moisture. Do not handle broken packages unless wearing appropriate personal protective equipment. Wash away any material which may be contacted the body with copious amounts of water or soap and water. Inform laundry personnel of contaminant's hazards. Clothing stains may be washed away using acetic acid. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product. Oxidizing materials should be stored in a separate safety storage cabinet or room. Store in tightly closed when not in use and when empty. Protect against physical darea, out of direct sunlight. Store away from incompatible materials and storage on wood floors. Store in suitable, labelled containers. Keep containers tightly closed when not in use and when empty. Protect against physical damage and moisture. Limit quantity of material in storage. Restrict access to storage area. Post warning signs when appropriate.
Storage Regulations	material in storage. Restrict access to storage area. Post warning signs when appropriate. Keep storage
Storage	Store at room temperature (15 to 25 °C recommended).
Temperatures Unsuitable Materials	Organic materials.

Unsuitable Materials Organic materials.

8. Exposure controls/personal protection

Other Exposure
InformationA time weighted average (TWA) has been established for Manganese, fume (as Mn) (Safe Work
Australia) of 1 mg/m³. The corresponding STEL level is 3 mg/m³. A time weighted average (TWA) has
been established for Manganese, dust & compounds (as Mn) (Safe Work Australia) of 1 mg/m³. The
STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15
minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes
between successive exposures at the STEL. The exposure value at the TWA is the average airborne

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Safety Data Sheet

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	concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.
Appropriate	In industrial situations maintain the concentrations values below the TWA. This may be achieved by
engineering controls	process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.
Respiratory	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours
Protection	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. Recommendation: Excellent: NR latex, vinyl and neoprene. Fair: Nitrile rubber gloves
Personal Protective	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.
Equipment 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	Flame retardant protective clothing. 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
Hygiene Measures	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.
-	hemical properties
Form	Solid
Appearance	Dark purple or bronze-like crystals.
Odour	Odourless.
Decomposition Temperature	~240 °C
Melting Point	Decomposes below melting point.
Solubility in Water	Soluble (6.4 g/100 ml @ 20°C).
Solubility in Organic Solvents Specific Gravity	Soluble in many organic solvents; also by concentrated acids. Soluble in acetone, methanol, acetic acid, trifluoroacetic acid, acetic anhydride, pyridine, benzonitrile, sulfolane. 2.7032
pH	7-9 (20 g/l H2O).
Vapour Pressure	<0.01 hPa at 20°C: negligible
Vapour Density	5.40
(Air=1) Partition Coefficient: n-octanol/water	Log P (o/w): -1.73.
Flammability	Not combustible but assists combustion of other substances.
Explosion Properties	Strong oxidants may explode when shocked, or if exposed to heat, flame, or friction. Also may act as initiation source for dust or vapor explosions. Contact with oxidizable substances may cause extremely violent combustion. Sealed containers may rupture when heated.
Molecular Weight	158.03
Oxidising Properties	Powerful oxidizing agent. Contact with oxidizable substances may cause extremely violent combustion.
Other Information	Decomposed by alcohol. Sweetish, astringent taste.
10. Stability and	reactivity
Chamical Stability	Stable under ordinary conditions of use and storage

Chemical Stability Stable under ordinary conditions of use and storage.

Conditions to Avoid Heat, temperatures above 150°C, flames, ignition sources, dust generation and incompatibles.



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Incompatible Materials	Organic or other readily oxidizable substances, acids; combustible substances; flammable liquids; reducing agents; hydrogen peroxide; hydroxylamine; hydrogen fluoride; sulfur; ammonium compounds; alcohols; formaldehyde; glycerol; phosphorus; finely powdered metals; some metals, zinc, copper; antimony or arsenic + friction; arsenites; bromides; iodides; activated carbon; charcoal; hydrides; ferrous or mercurous salts; hypophosphites; hyposulfites; sulfites; peroxides; oxalates; dimethylformamide; ethylene glycol; potassium chloride + conc. sulfuric acid; polypropylene + friction; hydrogen trisulfide.		
Hazardous Decomposition Products	Toxic gases and irritating and corrosive fumes, toxic meta of potassium and oxides of manganese.		
Possibility of hazardous reactions	May cause spontaneous ignition if mixed with some subs compounds. Reacts violently with sulfuric acid or hydroge with ammonium compounds. Reaction with organic mate Reaction with organic or other readily oxidizable substan compounds may be explosive. Reactive with reducing ag when ground with phosphorus. Reaction with methanol, e upon mixing with red fuming nitric acid, causes immediat ammonium nitrate, due to formation and explosive decon ignition. Delayed reaction (5 min.) with dimethylformamid may be spontaneously flammable. Reaction with conc. si violently explosive. Reaction with solid hydroxylamine pro polypropylene tube and friction; hydrogen trisulfide; antin Can react violently with most metal powders, phosphorus flammable liquids, acids and sulfur. It is a powerful oxidiz	en peroxide. May form explosive compounds erials can produce spontaneous combustion. ces; conc. hydrochloric acid; and most organic gents, combustible materials. Reacts vigorously ethanol, isopropanol, pentanol, or isopentanol, re ignition. Delayed reaction (7 hours) with inposition of ammonium permanganate, leads to le is explosive. Reaction with ethylene glycol ulfuric acid and potassium chloride may be oduces a white flame. Reaction with nony or arsenic and friction results in ignition. s, many finely divided organic compounds,	
Hazardous Polymerization	toxic sulfur dioxide to more toxic sulfur trioxide. Will not occur.		
11. Toxicological	Information		
Acute Toxicity - Oral	LD50 (rat): 750 mg/kg. The estimated lethal human dose by ingestion is 10 gran month:	ns, with death being delayed by up to one	
	Lowest Published Lethal Dose:		
Ingestion	LDLo (human): 100 mg/kg. Ingestion of solid or high concentrations causes severe of burns, perforation and oedema; slow pulse; shock with fa concentrations up to 1% causes burning of the throat, na causes anaemia and swelling of the throat with possible	all of blood pressure. May be fatal. Ingestion of usea, vomiting, and abdominal pain; 2-3%	
Inhalation	May cause liver damage. May cause central nervous sys Causes irritation to the respiratory tract with possible bur of breath. The lowest exposure concentration of mangan lungs may occur is still unknown. However, once neurolo and worsen after exposure ends. High concentrations ca (pulmonary oedema) that might be fatal in severe cases.	stem effects. ns. Symptoms may include coughing, shortness ese at which early effects on the CNS and the ogical signs are present, they tend to continue n cause a build-up of fluid in the lungs	
Skin	Dry crystals and concentrated solutions are caustic caus brown stains in the contact area and possible hardening mildly irritating to the skin.	ing skin irritation, redness, pain, severe burns,	
Eye	Eye contact with crystals (dusts) and concentrated solution blurred vision. May cause burns, chemical conjunctivities complete, but in severe cases, permanent damage such occur.	and corneal damage. Recovery is usually	
Skin Sensitisation	Sensitization with allergic manifestations in predisposed	persons.	
Carcinogenicity	Not listed in the IARC Monographs.		
Reproductive Toxicity	Evidence of reproductive effects. Men exposed to manga	anese dusts showed a decrease in fertility.	
Chronic Effects	Prolonged skin contact may cause irritation, defatting, an (manganism) can result from excessive inhalation expose involves impairment of the central nervous system. Early headache, apathy, sluggishness, sleepiness, and weakn symptoms of psychosis, fixed facial expression, emotionan neurological symptoms similar to those of Parkinson's dis	ure to manganese dust, or ingestion and effects include neurological symptoms such as ess in the legs. Advanced cases have shown al disturbances, spastic gait, falling and	

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	amounts of manganese include an increased incidence of cough and bronchitis and susceptibility to
	infectious lung disease.
Mutagenicity	No evidence of mutagenic properties.

12. Ecological information

12. Ecological information		
Ecotoxicity	Highly toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment. Hazard for drinking water supplies.	
Persistence and	Biologic degradation: Methods for the determination of biodegradability are not applicable to inorganic	
degradability	substances.	
Mobility	Distribution: Log Pow: -1.73.	
Bioaccumulative Potential	No bioaccumulation is to be expected (log Pow < 1).	
Other Adverse Effects	Harmful to aquatic life in very low concentrations.	
Information on	Bactericidal effect.	
Ecological Effects		
Environmental	Do not allow to enter waters, waste water, or soil!	
Protection		
Acute Toxicity - Fish	LC50 (Ictalurus punctatus): 0.1 mg/l /96 h;	
	LC50 (Carassius auratus): 3.6 mg/l /96 h.	
Acute Toxicity -	EC50 (Daphnia magna): 0.056 mg/l /48 h.	
Daphnia		
13. Disposal con	siderations	
Disposal	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local,	
Considerations	state and federal government regulations.	
14. Transport information		
Transport Information	Dangerous Goods of Class 5.1 Oxidising Agents are incompatible in a placard load with any of the following: - Class 1, Class 2.1, Class 2.3, Class 3, Class 4, Class 5.2, Class 7, Class 8, Fire risk substances and combustible liquids.	
U.N. Number	1490	
UN proper shipping name	POTASSIUM PERMANGANATE	
Transport hazard class(es)	5.1	

Hazchem Code	1Y
Packaging Method	3.8.5.1
Packing Group	II
EPG Number	5A1
IERG Number	31

15. Regulatory information

Regulatory	Listed in the Australian Inventory of Chemical Substances (AICS).
Information	
Poisons Schedule	S6

16. Other Information

Literature	'Standard for the Uniform Scheduling of Medicines and Poisons No. 6', Commonwealth of Australia,
References	February 2015.
	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.
	Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.
	Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.

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Contact Person/Point	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]'. 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. 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
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Empirical Formula 8	
Structural Formula	End Of MSDS
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