



Infosafe No™	1CH5P	Issue Date : June 2019	RE-ISSUED by CHEMSUPP
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Product Name : **POTASSIUM THIOCYANATE**

Classified as hazardous

1. Identification

GHS Product Identifier POTASSIUM THIOCYANATE

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

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SA 5013 Australia

Telephone/Fax Number Tel: (08) 8440-2000
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Emergency phone number CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

Recommended use of the chemical and restrictions on use Laboratory reagent, photographic restrainer and intensifier, synthetic dyestuffs, manufacture of sulfocyanides and thiourea, printing and dyeing textiles and medicine (hypotensive).

Other Names**Name****Product Code**

Potassium isothiocyanate, Potassium rhodanide, Potassium rhodanate, Potassium sulfocyanide, Potassium sulfocyanate, Potassium rhodamine
POTASSIUM THIOCYANATE AR

PA063

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 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 3
Acute Toxicity - Dermal: Category 4
Acute Toxicity - Inhalation: Category 4
Acute Toxicity - Oral: Category 4

Signal Word (s) WARNING

Hazard Statement (s) H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.
H412 Harmful to aquatic life with long lasting effects.
AUH032 Contact with acids liberates very toxic gas

Pictogram (s) Exclamation mark, Environment

**Precautionary statement – Prevention**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P363 Wash contaminated clothing before reuse.



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

3. Composition/information on ingredients

Chemical Characterization Solid

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Potassium thiocyanate	333-20-0	100 %	Xn	R20/21/22, R32, R52/53

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 medical advice if effects persist.

Skin Wash affected areas with copious quantities of water. Wash clothing before reuse. In severe cases or if irritation persists, 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.

Advice to Doctor Treat symptomatically or consult a Poisons Information Centre. 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 May liberate toxic gases in fire (sulfur oxides and nitrogen oxides, hydrogen cyanide).

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. Fire or heat may produce irritating, poisonous and/or corrosive gases. Containers may explode when heated. Runoff may pollute waterways.

Decomposition Temp. 500 °C (bpt.)

Precautions in connection with Fire Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Personal Precautions Avoid inhalation, contact with skin, eyes and clothing.

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.

Clean-up Methods - Large Spillages Seek expert advice on handling and disposal.

Environmental Precautions Prevent further leakage or spillage and prevent from entering drains

7. Handling and storage

Precautions for Safe Handling Avoid generation or accumulation of dusts. Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. In case of insufficient ventilation, wear suitable respiratory equipment. Wash hands and face thoroughly after working with material.



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Conditions for safe storage, including any incompatibilities Store away from oxidizing agents. Keep containers closed at all times. Store in cool place and out of direct sunlight.

Storage Temperatures Do not store above 25 °C.

8. Exposure controls/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.

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 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 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.

9. Physical and chemical properties

Form Solid

Appearance White powder or colourless crystals.
Turns brown, green, blue when fused, white again on cooling.

Odour Odourless.

Decomposition Temperature 500 °C (bpt.)

Melting Point 173 - 175 °C

Boiling Point 500 °C (decomp.)

Solubility in Water Soluble.

Solubility in Organic Solvents Soluble in alcohol and acetone.

Specific Gravity 1.89

pH ~ 5.3 - 8.5 (50 g/L, H₂O, 20 °C)

Flammability Non combustible material.

Molecular Weight 97.18

Other Information Taste: Saline, cooling taste.

10. Stability and reactivity



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Chemical Stability	Stable under normal use conditons.
Conditions to Avoid	Exposure to moisture. Light, heat, incompatibles. Slowly decomposes on exposure to light.
Incompatible Materials	Strong oxidisers, active halogen compounds, acids, bases, cyanides, nitrites.
Hazardous Decomposition Products	Cyanide fumes, potassium, hydrogen cyanide and oxides of carbon, nitrogen and sulfur.
Possibility of hazardous reactions	Contact with acids liberates very toxic gas (cyanide gas or hydrogen sulfide). Sensitive to moisture; slowly decomposes on exposure to light.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): 854 mg/kg.
Ingestion	Harmful if swallowed. May cause gastrointestinal irritation with psychosis, nausea, vomiting, disorientation, weakness, low blood pressure, convulsions and death which may be delayed. Ingestion of this material may lead to CNS effects, depression of the respiratory and cardiovascular systems. The probable lethal dose is between 15-30 grams.
Inhalation	Harmful by inhalation. Causes irritation to the mucous membranes and the respiratory tract. Symptoms may include coughing, chest pains and shortness of breath.
Skin	Harmful if absorbed through the skin. Causes irritation to skin with symptoms of redness, itching, and pain. Contact with skin may cause ulcers, discoloration or eczema.
Eye	Harmful if contact the eyes. Causes irriation to the eye, reddeness, pain, blurred vision and swollen eye lids.
Carcinogenicity	No evidence of carcinogenic properties.
Chronic Effects	Prolonged or repeated skin exposure may cause dermatitis. Repeated ingestion of small amounts may cause weakness, confusion, central nervous system effects, nausea and skin eruptions.
Mutagenicity	No evidence of mutagenic effects.

12. Ecological information

Biological Properties	Harmful to aquatic life. May cause long term adverse effects in the aquatic environment.
Environmental Protection	Do not allow product to enter drains, waterways or sewers. Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.
Acute Toxicity - Daphnia	EC50 (Daphnia magna): 11 mg/l/48 h.

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	Listed in the Australian Inventory of Chemical Substances (AICS). 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. 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.
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Safety Data Sheet

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**Contact
Person/Point**

Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.
Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.
Safe Work Australia, 'Hazardous Chemical 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:**

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