

Infosafe No™ 1CH5B      Issue Date : October 2020      RE-ISSUED by CHEMSUPP

Product Name **POTASSIUM DIHYDROGEN ORTHOPHOSPHATE Anhydrous**

Not classified as hazardous

## 1. Identification

**GHS Product Identifier**      POTASSIUM DIHYDROGEN ORTHOPHOSPHATE Anhydrous

**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

**Emergency phone number**      CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

**E-mail Address**      www.chemsupply.com.au

**Recommended use of the chemical and restrictions on use**      Laboratory reagent, buffer and sequestrant, yeast foods, baking powder and nutritional supplement in food.

<b>Other Names</b>	<u><b>Name</b></u>	<u><b>Product Code</b></u>
	POTASSIUM DIHYDROGEN ORTHOPHOSPHATE Anhydrous LR	PL009
	POTASSIUM DIHYDROGEN ORTHOPHOSPHATE Anhydrous AR	PA009
	Potassium dihydrogen phosphate, Monopotassium dihydrogen phosphate, Potassium acid phosphate, Potassium phosphate, monobasic	

### 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**      Not classified as hazardous according to the Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)] 3rd Edition, Safe Work Australia.  
Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

## 3. Composition/information on ingredients

<b>Ingredients</b>	<u><b>Name</b></u>	<u><b>CAS</b></u>	<u><b>Proportion</b></u>
	Potassium dihydrogen orthophosphate	7778-77-0	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. Get medical aid if cough or other symptoms appear.

**Ingestion**      Rinse mouth thoroughly with water immediately. DO NOT INDUCE VOMITING. Seek medical advice if effects 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.

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<b>Eye contact</b>	Irrigate with copious quantity of water for 15 minutes. Seek medical assistance if symptoms persist.
<b>First Aid Facilities</b>	Maintain eyewash fountain and safety shower in work area.
<b>Advice to Doctor</b>	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
<b>Other Information</b>	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 measures

<b>Hazards from Combustion Products</b>	May liberate toxic fumes in fire (phosphorus oxides).
<b>Specific Methods</b>	Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media. Material does not burn.
<b>Precautions in connection with Fire</b>	Wear SCBA and structural firefighter's uniform.

## 6. Accidental release measures

<b>Personal Precautions</b>	Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.
<b>Personal Protection</b>	Wear protective clothing specified for normal operations (see Section 8)
<b>Clean-up Methods - Small Spillages</b>	Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Avoid substance contact and generation and inhalation of dust.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep containers securely sealed and protected against physical damage. Keep dry and protect from direct sunlight. Store at room temperature (15 - 25 °C).
<b>Corrosiveness</b>	May be mildly corrosive to steel and aluminium.

## 8. Exposure controls/personal protection

<b>Other Exposure Information</b>	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/m <sup>3</sup> . All atmospheric contamination should be kept to as low a level as is workable.
<b>Appropriate engineering controls</b>	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.
<b>Respiratory Protection</b>	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.
<b>Eye Protection</b>	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.
<b>Hand Protection</b>	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.
<b>Personal Protective Equipment</b>	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

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<b>Footwear</b>	or other approved standards. Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
<b>Body Protection</b>	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.
<b>Hygiene Measures</b>	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

<b>Form</b>	Solid
<b>Appearance</b>	Colourless crystals or white powder.
<b>Odour</b>	Odourless.
<b>Melting Point</b>	253 °C
<b>Solubility in Water</b>	Soluble (222 g/L @ 20 °C)
<b>Solubility in Organic Solvents</b>	Insoluble in alcohol.
<b>Specific Gravity</b>	2.34
<b>pH</b>	pH of 5% solution @ 25 °C: 4.1-4.5
<b>Flammability</b>	Non combustible material.
<b>Molecular Weight</b>	136.09

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal use conditons.
<b>Conditions to Avoid</b>	Exposure to moisture.
<b>Incompatible Materials</b>	Strong oxidizing agents, acids, and strong bases.
<b>Hazardous Decomposition Products</b>	May liberate toxic fumes in fire (phosphorus oxides).
<b>Possibility of hazardous reactions</b>	May react violently with strong bases, acid in reaction.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. Toxicological Information

<b>Acute Toxicity - Dermal</b>	LD50 (rabbit): >4640 mg/kg.
<b>Ingestion</b>	Ingestion of large amounts may cause diarrhoea, nausea, vomiting, and cramps. In addition, symptoms of potassium poisoning may occur, including slow heartbeat, accelerated breathing, muscle weakness and, in severe cases, paralysis.
<b>Inhalation</b>	Dust and mist may be irritating to nose and throat, causing coughing and choking.
<b>Skin</b>	May cause skin irritation.
<b>Eye</b>	May cause mild irritation.
<b>Respiratory sensitisation</b>	Not classified based on available information.
<b>Skin Sensitisation</b>	Not classified based on available information.

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<b>Germ cell mutagenicity</b>	Not classified based on available information.
<b>Carcinogenicity</b>	Not classified based on available information.
<b>Reproductive Toxicity</b>	Not classified based on available information.
<b>STOT-single exposure</b>	Not classified based on available information.
<b>STOT-repeated exposure</b>	Not classified based on available information.
<b>Chronic Effects</b>	Repeated or prolonged skin contact may cause dermatitis.
<b>Mutagenicity</b>	Not classified based on available information.

## 12. Ecological information

<b>Ecological Information</b>	Quantitative data on the ecological effect of this product are not available.
<b>Information on Ecological Effects</b>	Depending on the concentration, phosphorus and/or nitrogen compounds may contribute to the eutrophication of drinking-water supplies.
<b>Short Summary of Assessment of Environmental Impact</b>	No ecological problems are to be expected when the product is handled and used with due care and attention.
<b>Acute Toxicity - Fish</b>	LC50 (L. idus): ~900 mg/l/48h.

## 13. Disposal considerations

<b>Disposal Considerations</b>	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

<b>Transport Information</b>	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

<b>Regulatory Information</b>	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.
<b>Poisons Schedule</b>	Not Scheduled

## 16. Other Information

<b>Literature References</b>	'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'.
<b>Contact Person/Point</b>	Paul McCarthy Ph. (08) 8440 2000 <b>DISCLAIMER STATEMENT:</b> 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

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**Empirical Formula  
& Structural  
Formula**

KH<sub>2</sub>PO<sub>4</sub>

...End Of MSDS...

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