



Infosafe No™ 1CH2I Issue Date : October 2020 RE-ISSUED by CHEMSUPP

Product Name **di-POTASSIUM HYDROGEN ORTHOPHOSPHATE Anhydrous**

Not classified as hazardous

1. Identification

GHS Product Identifier di-POTASSIUM HYDROGEN 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 Food additive as a buffer, sequestrant and yeast food, buffer in anti freezers, nutrient for penicillin culturing, humectant, pharmaceuticals, fertilizers, analytical chemistry and laboratory reagent.

Other Names	Name	Product Code
	di-POTASSIUM HYDROGEN ORTHOPHOSPHATE Anhydrous FG	PP020
	Potassium monophosphate, Dibasic potassium phosphate, Dipotassium hydrogen phosphate, Dipotassium phosphate, Potassium phosphate, dibasic di-POTASSIUM HYDROGEN ORTHOPHOSPHATE Anhydrous AR	PA020

Other Information EMERGENCY CONTACT NUMBER: +61 3 9263 4423
Business hours: 8:30am to 5:00pm, Monday to Friday.

Biolab (Aust) Limited 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 Biolab (Aust) Limited 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 Biolab (Aust) Limited 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

Ingredients	Name	CAS	Proportion
	di-Potassium hydrogen orthophosphate	7758-11-4	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. Give water to drink. DO NOT induce vomiting. Seek medical advice if effects persist.

Skin Wash affected areas with copious quantities of water. Seek medical advice if effects persist.



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Eye contact	Irrigate with copious quantity of water for 15 minutes. Seek medical assistance if symptoms persist.
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 at once.

5. Fire-fighting measures

Hazards from Combustion Products	May liberate toxic fumes in fire including phosphorus oxides, phosphine, and sodium oxides as well as thermal decomposition.
Specific Methods	Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media. Small fire: Use dry chemical, CO ₂ , 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. Containers may explode when heated.
Decomposition Temp.	240 °C
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 remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

7. Handling and storage

Precautions for Safe Handling	Avoid generating and inhaling dust.
Conditions for safe storage, including any incompatibilities	Keep containers securely sealed and protected against physical damage. Store away from acids. Keep dry and protect from direct sunlight. Store at room temperature (15 - 25 °C).
Corrosiveness	May be mildly corrosive to steel and aluminum.
Other Information	Prolonged storage may result in caking.

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/m ³ . All atmospheric contamination should be kept to as low a level as is workable. 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.
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	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.



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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 impervious clothing should be worn, preferably with an apron for extra protection. 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 crystals or powder.
Odour	Odourless.
Decomposition Temperature	240 °C
Solubility in Water	Very soluble.
Solubility in Organic Solvents	Slightly soluble in alcohol.
pH	9.0 - 9.2 (5% solution in carbon dioxide-free water)
Flammability	Non combustible material.
Molecular Weight	174.18

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	May liberate toxic fumes in fire including phosphorus oxides, phosphine, and sodium oxides.
Possibility of hazardous reactions	May react violently with acids.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Ingestion	Ingestion of large amounts may cause diarrhea, nausea, vomiting, gastric pain, abdominal pain and cramps. In addition, symptoms of potassium poisoning may occur, including slow heartbeat, drop in blood pressure, accelerated breathing, muscle weakness and, in severe cases, paralysis.
Inhalation	Dust and mist may be irritating to nose and throat, causing coughing and choking.
Skin	May cause slight irritation to skin.



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Eye	May cause mild irritation.
Respiratory sensitisation	Not classified based on available information.
Skin Sensitisation	Not classified based on available information.
Germ cell mutagenicity	Not classified based on available information.
Carcinogenicity	Not classified based on available information.
Reproductive Toxicity	Not classified based on available information.
STOT-single exposure	Not classified based on available information.
STOT-repeated exposure	Not classified based on available information.
Chronic Effects	Repeated or prolonged skin contact may cause dermatitis.
Mutagenicity	Not classified based on available information.

12. Ecological information

Persistence and degradability	Methods for the determination of biodegradability are not applicable to inorganic substances.
Information on Ecological Effects	Further ecologic data: Depending on the concentration, phosphates may contribute to the eutrophication of water supplies.
Short Summary of Assessment of Environmental Impact	No ecological problems are to be expected when the product is handled and used with due care and attention.
Acute Toxicity - Fish	LCIE (Gambusia ffinis): 467 mg/l/48 h.
Acute Toxicity - Daphnia	ECIE (Daphnia magna): 1089 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

Poisons Schedule	Not Scheduled
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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'.
Contact Person/Point	Biolab Ph. (03) 9263 4423 DISCLAIMER STATEMENT: All information provided in this data sheet or by our technical



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Safety Data Sheet

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**Empirical Formula
& Structural
Formula**

K₂HPO₄

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