



Infosafe No™ 1CHIC	Issue Date : October 2020	RE-ISSUED by CHEMSUPP
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Product Name **di-SODIUM HYDROGEN ORTHOPHOSPHATE Dodecahydrate**

Not classified as hazardous

1. Identification**GHS Product Identifier** di-SODIUM HYDROGEN ORTHOPHOSPHATE Dodecahydrate**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** Chemicals, fertilizers, pharmaceuticals, cosmetics, textiles (weighting silk, dyeing and printing), boiler-water treatment, fireproofing wood and paper, detergents, ceramic glazes, in porcelain industry, soldering enamels, tanning, galvanoplastics, cheese, dietary supplement, buffer solutions (phosphates), sequestrant in foods, analytical reagent and laboratory reagent.

Other Names	Name	Product Code
	di-SODIUM HYDROGEN ORTHOPHOSPHATE Dodecahydrate AR Disodium orthophosphate, Disodium hydrogen phosphate, Disodium acid phosphate, Sodium phosphate dibasic, Disodium phosphate	SA016

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).
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3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	di-Sodium hydrogen orthophosphate 12-hydrate	10039-32-4	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. DO NOT INDUCE VOMITING. If concerned seek medical advice.
Skin	Wash affected areas with copious quantities of water immediately. If irritation occurs seek medical advice.
Eye contact	Irrigate with copious quantity of water for 15 minutes. Seek medical



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First Aid Facilities assistance if symptoms persist.
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 measures

Hazards from Combustion Products May liberate toxic fumes in fire including Phosphorous oxides and sodium oxides.

Specific Methods Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media.

Decomposition Temp. Loses 5H₂O @ room temperature on exposure to air, loses 12H₂O @ 100 °C. Thermal decomposition: >34 °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 substance contact and generation and inhalation of dust.

Conditions for safe storage, including any incompatibilities Store in a cool, dry place. Keep containers closed at all times. Keep away from direct sunlight

Corrosiveness May be mildly corrosive to steel and aluminum.

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 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.

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



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Footwear	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.
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	Colourless, translucent crystals or white powder.
Odour	Odourless.
Decomposition Temperature	Loses 5H ₂ O @ room temperature on exposure to air, loses 12H ₂ O @ 100 °C. Thermal decomposition: >34 °C.
Melting Point	35 °C
Solubility in Water	Soluble (218 g/L @ 20 °C).
Solubility in Organic Solvents	Very soluble in alcohol.
Specific Gravity	1.5235
pH	~9.0-9.4 (50 g/l, H ₂ O, 20 °C)
Flammability	Non combustible material.
Molecular Weight	358.14
Other Information	Saline taste.

10. Stability and reactivity

Chemical Stability	Stable.
Conditions to Avoid	Strong heating, moisture.
Incompatible Materials	Strong acids, alkaloids, antipyrine, chloral hydrate, lead acetate, pyrogallol and resorcinol.
Hazardous Decomposition Products	Phosphorous oxides and sodium oxides.
Possibility of hazardous reactions	May react violently in contact with strong acids.
Hazardous Polymerization	Will not occur.
Other Information	Material releases water or crystallization when heated.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): 17000 mg/kg (anhydrous substance).
Ingestion	Ingestion of large amounts may cause diarrhea, nausea, vomiting and cramps.
Inhalation	Dust and mist may be irritating to nose, throat and mucous membranes. May cause coughing and choking.
Skin	May cause mild irritation.
Eye	May cause mild irritation.
Respiratory sensitisation	Not classified based on available information.



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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 irritation or chronic 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	Depending on the concentration, phosphates and/or nitrogen compounds may contribute to the eutrophication of water supplies. No ecological problems are to be expected when the product is handled and used with due care and attention.

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	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.
Poisons Schedule	Not Scheduled

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	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



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Safety Data Sheet

infosafe
CS: 3.4.14

Page: 5 of 5

Infosafe No™ 1CHIC	Issue Date : October 2020	RE-ISSUED by CHEMSUPP
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Empirical Formula & Structural Formula Na₂HPO₄.12H₂O

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