Infosafe No™	1CHRW	Issue Date : February 2019	RE-ISSUED by CHEMSUPP

Product Name : **DIAMMONIUM HYDROGEN PHOSPHATE**

Not classified as hazardous

1. Identification

GHS Product Identifier: DIAMMONIUM HYDROGEN PHOSPHATE

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

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Recommended use of the chemical and restrictions on use: Cigarettes; coating vegetation to retard forest fires; emulsifiers; feed additive; fertilizer (high analysis phosphate type); flame proofing of wood, paper, and textiles; flux for soldering tin, copper, brass, zinc; halophosphate phorphors; in ammoniated dentrifices; laboratory reagent; manufacture of yeast, vinegar, and bread improvers; plant nutrient solutions; purifying sugar; to prevent afterglow in matches and smoking of candle wicks.

Other Names

Name	Product Code
DIAMMONIUM HYDROGEN PHOSPHATE AR	AA032
DIAMMONIUM HYDROGEN PHOSPHATE FG	AP032
Phosphoric acid, diammonium salt	
DAP	
Diammonium phosphate, diammonium salt	
Ammonium phosphate dibasic	
Diammonium hydrogen orthophosphate	
Ammonium diphosphate	
Fyrex	
Ammonium phosphate, secondary	
di-Ammonium hydrogen phosphate	
Diammonium phosphate	
di-Ammonium phosphate	
Ammonium biphosphate	
di-Ammonium hydrogen phosphate (sec)	

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: Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

3. Composition/information on ingredients

Chemical Characterization: Solid

Ingredients

Name	CAS	Proportion	Hazard Symbol	Risk Phrase
Diammonium hydrogen phosphate	7783-28-0	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. 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 immediately. Remove contaminated clothing and wash before re-use. If persistent irritation occurs, obtain medical attention.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If rapid recovery does not occur, obtain medical attention
First Aid Facilities	Eye wash fountains and safety showers should be available for emergency use.
Advice to Doctor	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	Emits very toxic fumes of oxides of phosphorus, nitric oxides (NOx) and ammonia.
Specific Methods	No limitations to the type of extinguishing media. Use measures suitable for extinguishing surrounding fire.
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.	155 °C
Precautions in connection with Fire	Use suitable protective equipment for surrounding fire.

6. Accidental release measures

Personal Precautions	Avoid dust formation and avoid breathing dust. 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.

7. Handling and storage

Precautions for Safe Handling	Only use in well-ventilated areas. Avoid generation or accumulation of dusts. Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Wash hands and face thoroughly after working with material.
Conditions for safe storage, including any incompatabilities	Store in a cool,dry place. Store in well ventilated area. Keep containers securely sealed and protected against physical damage.

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	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.
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 crystals or powder.
Odour	Odourless.
Decomposition Temperature	155 °C
Solubility in Water	Soluble in water (132.1 g/l at 20°C)
Solubility in Organic Solvents	Insoluble in alcohol.
Specific Gravity	1.620 g/cm3
pH	7.8 - 8.5 (50 g/l, H2O, 20 °C)
Flammability	Non combustible material.
Molecular Weight	132.06
Other Information	Mildly alkaline in reaction.

10. Stability and reactivity

Chemical Stability	Stable under ordinary conditions of use and storage. Gradually loses about 8% ammonia on exposure to air.
Conditions to Avoid	Heat and incompatibles.
Incompatible Materials	Sodium hypochlorite, magnesium, strong oxidisers, strong acids.
Hazardous Decomposition Products	Emits very toxic fumes of oxides of phosphorus, nitric oxides (NOx) and ammonia.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Ingestion	May cause irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting, diarrhea, swelling of the lips, mouth and larynx and burns to the oesophagus.
Inhalation	May causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath, chest irritation, chest pain, burns and wheezing.
Skin	May causes irritation to skin. Symptoms include redness, itching, burns, and pain.
Eye	May causes irritation, burns, redness and pain. May cause conjunctivitis.
Carcinogenicity	No evidence of carcinogenic properties.
Chronic Effects	Repeated or prolonged skin contact may cause chronic dermatitis. Repeated or prolonged exposure via inhalation may cause chronic cough, prolong headaches, asthma and lung fibrosis. Also, may experience increases in blood pressure and pulse.
Mutagenicity	No evidence of mutagenic properties.

12. Ecological information

Ecotoxicity	Quantitative data on the ecological effect of this product are not available.
Persistence and degradability	No persistence/degradability data available for this product.

13. Disposal considerations

Not classified as hazardous

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and disposed of according to relevant local, state and federal government regulations.

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.

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. 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]'.
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 obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.
Empirical Formula & Structural Formula	(NH4)2 HPO4

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