

## Safety Data Sheet DIAMMONIUM HYDROGEN PHOSPHATE

SDS no. CPZA7ALN • Version 1.0 • Date of issue: 2024-01-31

### SECTION 1: Identification

#### GHS Product identifier

Product name DIAMMONIUM HYDROGEN PHOSPHATE

#### Other means of identification

DIAMMONIUM HYDROGEN PHOSPHATE AR AA032

DIAMMONIUM HYDROGEN PHOSPHATE FG AP032

Phosphoric acid, diammonium salt

Diammonium phosphate,  
diammonium salt Ammonium

phosphate dibasic Diammonium hydrogen orthophosphate

Ammonium diphosphate

Ammonium phosphate, secondary

di-Ammonium hydrogen phosphate

Diammonium phosphate

di-Ammonium phosphate

Ammonium biphosphate

di-Ammonium hydrogen phosphate (sec)

#### 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 phosphors; 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.

#### Supplier's details

Name ChemSupply Australia Pty Ltd

Address 38-50 Bedford Street  
5013 Gillman South Australia  
Australia

Telephone 08 8440 2000

email [www.chemsupply.com.au](http://www.chemsupply.com.au)

#### Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

### SECTION 2: Hazard identification

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General hazard statement

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

Not a hazardous substance or mixture.

GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

Not a hazardous substance or mixture.

SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight: 132.06

Components

Component	CAS no.	Concentration
Ammonium phosphate dibasic (EC no.: 231-987-8)	7783-28-0	<= 100 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.		

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	First Aid Facilities: Maintain eyewash fountain in work area.
If inhaled	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.
In case of skin contact	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If persistent irritation occurs, obtain medical attention.
In case of eye contact	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If persistent irritation occurs, obtain medical attention.
If swallowed	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.

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#### Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically based on judgement of doctor and individual reactions of the patient.

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor.

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## SECTION 5: Fire-fighting measures

#### Suitable extinguishing media

Use measures suitable for extinguishing surrounding fire.

#### Specific hazards arising from the chemical

Emits very toxic fumes of oxides of phosphorus, nitric oxides (NO<sub>x</sub>) and ammonia.

Material does not burn. Fire or heat may produce irritating, poisonous and/or corrosive gases. Containers may explode when heated. Runoff may pollute waterways.

#### Special protective actions for fire-fighters

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

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## SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Avoid dust formation and avoid breathing dust. Avoid inhalation, contact with skin, eyes and clothing.

Wear protective clothing specified for normal operations (see Section 8)

#### Methods and materials for containment and cleaning up

Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

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## SECTION 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 incompatibilities

Store in a cool, dry place. Store in well ventilated area. Keep containers securely sealed and protected against physical damage.

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## SECTION 8: Exposure controls/personal protection

#### Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

#### Individual protection measures, such as personal protective equipment (PPE)

##### Eye/face 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.

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#### Skin protection

Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.

#### 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.

#### 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.

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## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

Physical state	Solid
Appearance	White crystals or powder.
Color	No data available.
Odor	Odourless.
Odor threshold	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	155 °C
Oxidizing properties	No data available.
pH	7.8 - 8.5 (50 g/l, H <sub>2</sub> O, 20 °C)
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Soluble in water (132.1 g/l at 20°C) Solubility in Organic Solvents: Insoluble in alcohol.
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	Specific Gravity: 1.620 g/cm <sup>3</sup>
Relative vapor density	No data available.
Particle characteristics	No data available.

### Supplemental information regarding physical hazard classes

No data available.

### Further safety characteristics (supplemental)

Other Information: Mildly alkaline in reaction.

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## SECTION 10: Stability and reactivity

### Reactivity

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Stable under normal conditions of storage and handling.

#### Chemical stability

Stable under ordinary conditions of use and storage. Gradually loses about 8% ammonia on exposure to air.

#### Possibility of hazardous reactions

Hazardous Polymerization: Will not occur.

#### 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.

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## SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity

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 corrosion/irritation

May causes irritation to skin. Symptoms include redness, itching, burns, and pain.

##### Serious eye damage/irritation

May causes irritation, burns, redness and pain. May cause conjunctivitis.

##### Respiratory or skin sensitization

No data available.

##### Germ cell mutagenicity

No data available.

##### Carcinogenicity

No data available.

##### Reproductive toxicity

No data available.

##### Summary of evaluation of the CMR properties

No data available.

##### Specific target organ toxicity (STOT) - single exposure

No data available.

##### Specific target organ toxicity (STOT) - repeated exposure

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No data available.

### Aspiration hazard

No data available.

### Additional information

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.

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## SECTION 12: Ecological information

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## SECTION 13: Disposal considerations

### Disposal methods

### Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

### Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

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## SECTION 14: Transport information

### ADG (Road and Rail)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

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## SECTION 15: Regulatory information

### Safety, health and environmental regulations specific for the product in question

#### Australia SUSMP

Poison Schedule: NS

#### Canadian Domestic Substances List (DSL)

Chemical name: Phosphoric acid, diammonium salt

CAS: 7783-28-0

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## SECTION 16: Other information

### Further information/disclaimer

ChemSupply Australia 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 ChemSupply Australia 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

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#### Preparation information

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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', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), [hcis.safeworkaustralia.gov.au](https://hcis.safeworkaustralia.gov.au)

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)