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## 1. Identification

**Product Name:** **DAP; Diammonium phosphate**

**Other Name(s):** di-Ammonium hydrogen orthophosphate, di-Ammonium hydrogen phosphate, Ammonium biphosphate, Ammonium phosphate dibasic, Ammonium monohydrogen orthophosphate

**Chemical formula:**  $(\text{NH}_4)_2\text{HPO}_4$

**Proper Shipping Name:** None allocated

**UN Number:** None allocated

**Recommended Use:** As a fertiliser ingredient

**Manufacturer:**

Ravensdown Fertiliser Co-operative Ltd

32 Oxford Terrace

PO Box 1049

Christchurch

Customer Centre – ph. 0800 100 123

Email info@ravensdown.co.nz

**24 hrs Poisons Advice:** National Poisons Centre

ph. 0800 POISON / 0800 764 766

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## 2. Hazard Identification

**Statement of Hazardous Nature:** Classified as hazardous according to criteria in the *HS (Minimum Degrees of Hazard) Regulations 2001*.

**Hazard Classification:** 6.1E, 6.3A, 6.4A, 9.1D



WARNING

**Hazard Statements**

Harmful if swallowed.

Causes skin irritation.

Causes eye irritation.

May be harmful if inhaled.

Harmful to aquatic life.

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## 3. Composition & Information on Ingredients

Ingredient	CAS Number	Proportion
Diammonium phosphate	7783-28-0	100%

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## 4. First Aid Measures

**Response Statements**

**IF SWALLOWED :** Rinse mouth, do NOT induce vomiting.

**IF ON SKIN :** Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use

**IF INHALED :** Remove to fresh air and keep at rest in a position comfortable for breathing.

**IF IN EYES :** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

Call a POISON CENTRE or doctor/physician if you feel unwell.

If skin or eye irritation occurs : Get medical advice/attention.

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Never give fluids to an unconscious person.

**Poisons & Hazardous Chemicals National Information Centre**

phone 0800 POISON – 0800 764 766



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## 5. Fire Fighting Measures

Non-flammable

**Extinguishing media:** Based on surrounding materials

**Combustion products:** Ammonia, nitrogen oxides, phosphorous oxides.

**Flash point:** Not applicable

**Flammability limits:** Not applicable

**Auto-ignition temperature:** Not applicable

**HAZCHEM Code:** None allocated

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## 6. Spillage, Accidental Release Measures

Protect yourself and others from injury. Wear appropriate protective equipment (see section 8)

Collect and place in clean sealable containers. Avoid generating dusts.

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## 7. Handling & Storage

### Precautionary Statements

Keep out of reach of children.

Wash hands thoroughly after handling.

Avoid release to the environment.

### Safe Handling

Avoid generating dusts.

### Storage

Store in sealed packaging in cool, dry, well ventilated area.

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## 8. Exposure Controls & Personal Protection

### Exposure Standards

#### **Workplace Exposure Standards (WES):**

*Particulates not otherwise classified*

Inspirable dust 10mg.m<sup>-3</sup>

Respirable dust 3mg.m<sup>-3</sup>

*Ammonia* 25ppm (TWA)

35ppm (STEL)

### PPE

**Respiratory:** If dusts present wear dust mask.

**Eyes/Face:** Safety glasses. If dusts present wear goggles.

**Skin:** Overalls, gloves.

Eye wash facilities should be available.

Wash hands after working with substance.

**Tolerable Exposure Limit (TEL):** Not assigned

### Engineering Controls

**Ventilation:** Use in a well ventilated area. If dusts are generated use local extraction to control.

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## 9. Physical & Chemical Properties

**Appearance:** Grey or brown semi-granules

**Odour:** none

**pH:** (50g.L<sup>-1</sup> in water, 20°C) 7.8-8.1

**Vapour pressure:** Not available.

**Vapour density:** Not available.

**Boiling point:** Not applicable

**Melting point:** 155°C (decomposes)

**Solubility (water):** soluble

**Specific gravity:** 1.00 g.cm<sup>-3</sup>

**Bulk density:** 955 kg.m<sup>-3</sup>

**Flash point:** Not applicable

**Auto-ignition temperature:** Not applicable

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## 10. Stability & Reactivity

**Stability:** Stable under normal conditions.  
**Conditions to avoid:** Strong heat  
**Materials to avoid:** Sodium hypochlorite.

**Hazardous decomposition products:** Ammonia, nitrogen oxides, phosphorous oxides  
**Hazardous polymerisation:** Will not occur.  
**Hygroscopic:** No

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## 11. Toxicological Information

### Health Effects / Symptoms of Exposure

No adverse health effects expected under normal conditions.

**Inhalation:** Inhalation of dusts may be irritating.

**Skin:** Irritant. Prolonged and repeated skin exposure may result in irritation.

**Eyes:** Irritant. May cause lachrymation, pain & redness.

**Ingestion:** Irritant. May cause nausea, vomiting and diarrhoea. May disturb calcium metabolism.

### Toxicological Data

LD<sub>50</sub> (oral, rat)                      6500 mg.kg<sup>-1</sup>

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## 12. Ecological Information

**Environmental Exposure Limit (EEL):** Not assigned

Avoid washing excessive amounts into streams and waterways

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## 13. Disposal Considerations

Observe any local authority restrictions that may apply. Collection into sealable containers and dispose of in an approved land fill. If practicable apply excess fertiliser at recommended rates to appropriate land.

**Containers:** Rinse containers thoroughly prior to re-use. Otherwise render unusable, and dispose of as waste.

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## 14. Transport Information

No special transport requirements necessary  
**Proper Shipping Name:** None allocated

**UN Number:** None allocated

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## 15. Regulatory Information

**Exposure limits:** (see sections 8, 12)  
**ERMA Approval :** HSR002769

### HSNO Controls

Refer '*ERMA User Guide to Controls*' for full details.

**Location Certification:** Not required

**Tracking:** Not required

**Approved Handlers:** Not required.

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## 16. Other Information

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**Revision Information**

This revision dated 10 May 2007 – addition of HSNO classifications, hazard and precautionary statements. General review in conjunction with *HSNO Approved Code of Practice : Preparation of Safety Data Sheets*.

Previous revision dated 20 September 2005 (re-write).