

**MSDS Sheet**  
**According to 91/155/EEC**

(Print date: Monday, August 15, 2005)      Date / revised: Thursday, April 14, 2005

**Product: Nutrafeed soluble Fertilizers**

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## **1. Substance/preparation and company name**

### **Nutrafeed soluble Fertilizers**

Company:

Paton Fertilizers : **02 4729 2888**

**FAX: 02 4729 2810**

**E-MAIL: [info@paton.com.au](mailto:info@paton.com.au)**

126 Andrews Rd, Penrith 2750

Emergency information:

Bruce Cairns: 0408 117732

Jerry Spencer: 0411 497067

## **2. Composition/information on ingredients**

Chemical nature: NPK soluble fertilizer contains:

Ammonium sulphate: CAS-Nr. 7783-20-2

Potassium sulphate: CAS-Nr. 7778-80-5

Potassium nitrate: CAS Nr. 7757-79-1

Iron Sulphate: CAS-Nr. 7782-63-0

Urea lo biuret: CAS-Nr. 57-13-6

Mono ammonium phosphate: CAS Nr. 7722-76-1

Magnesium sulphate: CAS Nr. 1034-99-8

## **3. Possible hazards**

Advice on critical hazards to man and the environment: (see section 10)

Not subject to labelling in accordance with EEC Directives.

## **4. First aid measures**

On inhalation of decomposition products:

Keep patient calm, remove to fresh air, summon medical help; if danger of loss of consciousness, place patient in recovery position and transport accordingly; possibly artificial respiration with oxygen.

On skin contact:: Wash with soap and water.

On contact with eyes: Wash affected eyes for at least 15 minutes under

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running water with eyelids held open.

On ingestion: Rinse out the mouth, medical assistance.

Note to physician: Treat according to symptoms (decontamination, vital functions), treat with toluonium chloride to reverse ethaemoglobinanaemia. On inhalation of decomposition products (nitrous gases) - pulmonary odema prophylaxis: inhale corticosteroid dose aerosol (e.g. dexamethazone). Symptoms can appear later.

## **5. Fire fighting measures**

Suitable extinguishing media: If product is involved in fire: water, water spray, dry extinguishing media. When decomposing product is handled: water. Unsuitable extinguishing media for safety reasons:

When decomposing product is handled none: foam, dry extinguishing media, carbon dioxide (CO<sub>2</sub>), powder, sand.

Specific hazards due to the substance, products of combustion or corresponding gases:

Thermal decomposition products: nitrogen oxides, ammonia.

Special protective equipment: Possibly self-contained breathing apparatus. Further information: Collect separately contaminated extinguishing water, do not allow to reach sewerage or effluent systems. Fire debris must be disposed of in accordance with local regulations.

## **6. Accidental release measures**

Personal precautions: (see section 8)

Environmental precautions: Do not let product enter drains. Small spillages can be swilled away with water. Waste water must be disposed of correctly. Methods for cleaning up: Sweep/shovel up. Is to be observed: (see section 10,13).

## **7. Handling and storage**

### **Handling**

Advice on safe handling:

Protect against contamination.

Protection against fire and explosion: The product is incombustible. It can lower the ignition temperature of combustible substances. (see section 10).

### **Storage**

Storage and packaging requirements: § 23 (2) Hazardous Goods Order

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(Germany) identification with the inscription:

Keep away from heat. Keep away from sources of ignition - No smoking.  
Protect from direct sunlight. Keep away from combustible material.  
Protect against contamination. Protect against moisture; ( The product is hygroscopic, tends to cake ). When stored loose do not mix with other fertilizers.

### **8. Exposure controls and personal protection**

Additional information on the lay-out of technical plant (see section 7)  
Components with workplace control parameters: None

Personal protective equipment: If breathable dust is formed: dust mask.  
General safety and hygiene measures: At the end of the shift the skin should be cleaned and skin-care agents applied.

### **9. Physical and chemical properties**

Form: crystalline solid  
Colour: Various, depending on the shade  
Odour: Faint specific odour  
Change in physical state: Decomposition: > 350 °C  
Flash point: Not relevant  
Explosion hazard: Not appropriate:  
Fire promoting properties: Not appropriate:  
Bulk density: approx. 1,75 g/cm<sup>3</sup>  
Solubility in water: Mainly soluble

### **10. Stability and reactivity**

Conditions to avoid: To avoid thermal decomposition, do not overheat.  
Substances to avoid: Dangerous reaction with acid or alkaline substances.  
Risk of explosion if heated under confinement.  
Hazardous decomposition products: Nitrous gases (nitrogen oxides), ammonia. Ammonia in contact with alkaline solutions.

### **11. Toxicological information**

Acute toxicity \*  
LD50/oral/rat: >3000 mg/kg  
Additional information: Danger of methaemoglobin formation.

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## **12. Ecological information**

### **Elimination information**

Inorganic product which cannot be eliminated from water by biological purification processes.

### **Behaviour and environmental fate**

No significant accumulation in organisms is expected as a result of the distribution coefficient of n-octanol/water ( $\log P_{ow} < 1$ ).

### **Ecotoxic effects**

Toxicity to fish and aquatic fauna:

7783-20-2 Ammonium sulphate

LC50/48h: 129 mg/L (daphnia magna)

LC50/96h: 460-1000 mg/L (leuciscus idus)

**Sewage treatment plants:** Disposal via sewage water treatment plants may cause impairment of the nitrification activity of the activated sludge.

### **Further ecological information**

The product has not been tested. The statements are based on the properties of the individual components. No reports of ill effects provided product was correctly handled and processed.

## **13. Disposal considerations**

### **Product:**

Test for use in agriculture. Contact manufacturer.

### **Contaminated packaging:**

Contaminated packs should be emptied as far as possible, they can then be passed on for recycling after being thoroughly cleaned.

## **14. Transport information**

Land transport:

Inland waterway transport:

Sea transport:

Air transport:

Not classified as hazardous under transport regulations.

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**15. Regulatory information**

Not subject to labelling

**16. Other information**

\* = The product has not been tested. The statements are based on the properties of the individual components.

A backslash in the left hand margin indicates an amendment from the previous version.

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties.

Recipients of our product must take responsibility for observing existing laws and regulations.