

## PRODUCT HEALTH & SAFETY DATA

### *Nitrogen, phosphate & potash granular fertilisers – including formulations with slow-release nitrogen, magnesium & iron*

(Components vary according to nutrient analysis, but all formulations share the same COSSH recommendations)

#### 1.0 DESCRIPTION

1.1 **Commercial characterisation:** Granular nitrogen, phosphate and potash horticultural fertiliser

1.2 **Form:** Dry, granular      1.3 **Particle sizes:** Fine: 0.3 – 0.7 mm, Greens: 1.0 – 1.3 mm, Fairways: 2.2 – 2.8 mm

#### 1.4 Components:

Nitrogen: urea, coated & methylene ureas, urea formaldehyde, ammonium sulphate

Phosphate: monammonium phosphate, triple superphosphate

Potash: potassium chloride, potassium sulphate, potassium nitrate

Other nutrients: magnesium oxide, ferrous sulphate

Bulking agent: calcium carbonate

1.5 **Appearance:** multicoloured granules

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#### 2.0 PHYSICAL AND SAFETY DATA

2.1 Change in physical state: n/a

2.2 Bulk density: n/a

2.3 Vapour pressure: n/a

2.4 Viscosity: n/a

2.5 Solubility in water: Comprises soluble, partially soluble and insoluble components

2.6 pH value:

2.7 Flash point: Non-flammable

2.8 Ignition temperature: Not known

2.9 Explosion limits: Lower: n/a      Upper: n/a

2.10 Thermal decomposition: Toxic fumes above 130 °C

2.11 Hazardous decomposition products: Ammonia, isocyanic acid, nitrogen oxides, sulphur oxides

2.12 Hazardous reactions: With strong oxidising agents, strong acids, strong bases, hypochlorites, aldehydes

2.13 Further information: Absorbs atmospheric moisture, becoming caked and wet

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3.0 **TRANSPORT:** GGVSee/IMDG code: UN No: ICAO/IATA-DGR:  
GGVE/GGVS: RID/ADR: ADNDR:  
Other information: Not listed in any of the above.

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4.0 **REGULATIONS:** Not classified as hazardous.

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#### 5.0 **PROTECTIVE MEASURES, STORAGE AND HANDLING**

5.1 Technical storage measures: Avoid prolonged contact with metals. Keep dry in storage.

5.2 Personal protective equipment: Respiratory protection: Dust mask when bulk handling  
Hand Protection: Gloves  
Eye protection: Safety glasses  
Other: Overalls to prevent skin contact

5.3 Industrial hygiene: Avoid prolonged skin contact. Wash hands before eating.

5.4 Fire and explosion protection: No special precautions required.

5.5 Disposal: In accordance with Local Authority/Environment Agency regulations.

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#### 6.0 **MEASURES IN CASE OF ACCIDENTS AND FIRE**

6.1 After spillage/leakage: Contain and sweep up.  
Wet residues are slippery. Wash floor to remove traces.

6.2 Extinguishing media: CO<sub>2</sub>, water spray. Do not smother with foam or sand.

6.3 Fire-fighting precautions: Respiratory and eye protection for personnel

6.4 First Aid: Skin contact: Wash to remove contamination.  
Eye contact: Irrigate thoroughly with water for 10 minutes. Seek medical advice if irritation persists.  
Ingestion: Essentially non-toxic in small quantities; give water to drink. If large quantities ingested, induce vomiting and seek medical advice.

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7.0 Information on toxicity: Components are essentially non-toxic in normal use.

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8.0 Information on ecological effects: Components are biodegradable. Avoid pollution of watercourses.

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The information contained in this leaflet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up-to-date information at the time of publication. Providing our products are handled and used in accordance with the label instructions, they should offer no hazard to health or safety.