

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

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

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.

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

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.

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: CO₂, 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.

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

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

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.