

PRODUCT HEALTH & SAFETY DATA

Nitrogen, phosphate & potash liquid fertilisers ***– including formulations with organic stimulants, secondary and trace elements***

(Components are tailored to individual formulations but all share the same COSHH recommendations)

1.0 DESCRIPTION

1.1 **Commercial characterisation:** Horticultural liquid fertilisers

1.2 **Form:** Aqueous solutions

1.4 **Components:**

Nitrogen: urea, methylene urea, ammonium sulphate

Phosphate: ammonium phosphate

Potash: potassium chloride, potassium carbonate

Other nutrients: magnesium sulphate, ferrous sulphate, ferric chloride, ferric ammonium EDTA, calcium nitrate, manganese sulphate, citric acid, yucca extract, seaweed extract, humic acid

2.0 PHYSICAL AND SAFETY DATA

2.1	Change in physical state:	Pour point	n/a
2.2	Bulk density:	1100 - 1400	kg/m ³ depending on formulation
2.3	Vapour pressure:	n/a	
2.4	Viscosity:	n/a	
2.5	Solubility in water:	Completely soluble components	
2.6	pH value:	2.0 – 10.0	depending on formulation
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, chlorine	
2.12	Hazardous reactions:	With strong oxidising agents, strong acids, strong bases, hypochlorites, aldehydes, allyl chloride	
2.13	Further information:		

3.0 **TRANSPORT:** GGVSee/IMDG code: UN No: ICAO/IATA-DGR:
GGVE/GGVS: RID/ADR: ADNR:
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 frost free in storage.

5.2 Personal protective equipment: Respiratory protection:
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 spillages with sand.
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: Formulations are essentially non-toxic in normal use.

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.

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