



BETTAGROW FERTIPHOS-N

Technical Data Sheet

Fertiphos-N

Liquid Orthophosphate Fertilizer

Fertiphos-N is a readily available source of phosphorus to plants

FERTILISER GROUP 1

Registration number: K11057 Act 36 of 1947

1 Registration Holder, Manufacturer & Supplier

BETTAGROW (PTY) Ltd
Reg. no. 2012/046192/07
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2 Product Description

Fertiphos-N is a **liquid orthophosphate fertiliser** formulated to supply readily available phosphorus and nitrogen to crops. The phosphorus is predominantly present in orthophosphate form, ensuring immediate uptake by plants, particularly during early growth stages when phosphorus demand is critical.

3 Intended Use

Fertiphos-N is designed for use as a starter fertiliser and supplementary phosphorus source to:

- Promote early root development
- Support crop establishment
- Improve nutrient availability during critical growth stages

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4 Functional Characteristics

Orthophosphate vs Polyphosphate

Phosphorus in fertilisers occurs mainly as orthophosphate or polyphosphate:

- **Orthophosphate:**

Immediately available for plant uptake

- **Polyphosphate:**

Requires conversion in the soil to orthophosphate before uptake

Factors Affecting Polyphosphate Conversion

- Soil temperature (lower temperatures slow conversion)
- Soil pH
- Soil clay content

Due to these variables, reliance on polyphosphate sources may delay phosphorus availability. This is particularly important in crops such as maize, where early phosphorus availability (within ~21 days after emergence) is critical for yield determination.

Therefore, application of an Orthophosphate starter fertilizer is critical to crop establishment and achieving the maximum economic yield per hectare.

5 Benefits

- Provides immediately available phosphorus
- Supports early root growth and establishment
- Enhances early season plant vigour
- Reduces risk of phosphorus deficiency during critical growth stages
- Suitable for use in both dryland and irrigated systems



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6 Fertiphos-N Nutrient Content

Nitrogen (N)	113.0 g/kg (143.5 g/L)
Phosphorus (P) - Total As Orthophosphate Balance: as Polyphosphate	102.0 g/kg (129.5 g/L) 101.0 g/kg (128.3 g/L) 3.0 g/kg (3.8 g/L)
Specific Gravity (SG)	1.27
pH	6.5 to 7.1

AVAILABILITY: Packed in 20 Litres and 1000 Litres

DIRECTIONS FOR USE: Use only as directed. Use PPE as directed – refer to Product SDS

7 Application Rates and Recommendations

CROP	APP RATE	RECOMMENDATIONS
Row Crops/All Crops(including potatoes) DRY LAND		
First Application	5 L/ha	in-furrow or seed treatment
Second Application	3 L/ha	with first fungicide application

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Row Crops/All Crops(including potatoes) IRRIGATION		
First Application	10 L/ha	in-furrow or seed treatment
Second Application	10 L/ha	by 80% emergence
Pastures - IRRIGATION		
First Application	5 L/ha	with plant in-furrow
Second Application	5 L/ha	10 days before the first cutting/grazing and thereafter repeat 10 days prior to each subsequent cutting.
Tree crops and Vines		
Soil Application	10 L/ha	at first irrigation and post harvest
Foliar Application	5 L/ha	at budbreak and 4 weeks after budbreak

8 Handling and Storage

- Store in a cool, dry, well-ventilated area
- Keep containers tightly closed
- Keep away from food, feed, and drinking water
- Store out of reach of children, animals, and uninformed persons

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9 Hazard Statements

- Causes skin irritation
- Causes eye irritation
- May cause allergic skin reaction
- Ingestion may cause gastrointestinal irritation, nausea, vomiting, or diarrhoea

10 Precautionary Measures

- Use appropriate Personal Protective Equipment (PPE)
- Avoid contact with skin, eyes, and clothing
- Do not ingest or inhale spray mist
- Wash thoroughly after handling

11 First Aid Measures

- Eyes: Rinse cautiously with clean water for several minutes
- Skin: Wash with soap and water
- Inhalation: Move to fresh air
- Ingestion: Do not induce vomiting; seek medical attention if symptoms occur

12 Spill Response

- Contain and collect spillage using suitable absorbent material
- Prevent contamination of water sources and drains
- Dispose of waste in accordance with local regulations

13 Disclaimer/Conditions of Sale

This product is manufactured to strict quality standards and sold in good faith. However, as application conditions are beyond the control of the manufacturer, no warranty is given regarding performance. The user is responsible for determining product suitability for the intended application and assumes all associated risks and liabilities.