

# SwardPhite©

## Bioactive Turf Fertiliser



|  <b>SwardPhite</b><br><b>4-25-9</b><br><small>Promotes better turf growth through bioactive nutrition</small>  |  |
|---|--|
| <b>UK ANALYSIS (w/w):</b><br><b>NPK FERTILISER SOLUTION A 25-9</b><br>Total Nitrogen (N) - 4.0% (18.0% P)<br>Phosphorus Pentoxide (P2O5) soluble in water - 25.0% (18.0% P)<br>Potassium Oxide (K2O) soluble in water - 9.0% (7.0% K)   |  |
| <b>REL ANALYSIS (w/w):</b><br><b>NPK FERTILISER A 15.9-7.8</b><br>Total Nitrogen (N) - 4.0%<br>Ammoniacal Nitrogen - 0.0%<br>Phosphorus (P) soluble in neutral Ammoniacal Citrate - 10.0%<br>Phosphorus (P) soluble in water - 10.0%<br>Potassium (K) soluble in water - 7.8%   |  |
| <b>SAFETY PRECAUTIONS:</b><br>In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection.<br>This material and its container must be disposed of as hazardous waste.<br>KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.<br>PROTECT FROM FROST.  |  |
| <b>APPLICATION RATES:</b><br>Apply SwardPhite at 2 to 3 times intervals at 4 (hectare) or 400 to 1000 litres of water (200 to 1000 l in 4 to 10 litres of water).<br>To be used only where there is a recognised need.<br>Do not exceed recommended application rate.   |  |
| <b>CONDITIONS OF SUPPLY:</b><br>We believe that all goods supplied by us are suitable for the purposes stated on the packaging. However we cannot accept liability for the results of products including liability for any of our products, their storage, handling, moving or use, for the weather conditions before and after application, all conditions and warranties - statutory or otherwise - as to the quality or fitness for any purpose of our goods are excluded. The responsibility will be accepted by all our authorised resellers for any failure in performance, damage or otherwise (including personal injury). These conditions cannot be varied otherwise than in writing, signed by an authorised director. |  |
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| <b>3SW10</b><br><b>Contains:</b><br><b>10 Litres</b>  |  |

SwardPhite is a premium liquid fertiliser specifically designed for professional turf management. Formulated with a scientifically balanced ratio of Nitrogen, Phosphorus, and Potassium (4:25:16), it provides effective nutrient delivery to optimise plant performance. The unique Phosphorus component, in the form of Phosphite (PO<sub>3</sub>), enhances energy efficiency, supports robust root growth, and stimulates the turf's natural defence mechanisms.



## Key Features

- **Nutrient Ratio:** 4:25:16 (N:P:K) for optimal plant nourishment.
- **Phosphite ( $\text{PO}_3$ ):** A fast-acting, mobile form of Phosphorus that promotes superior root development and stress resistance.
- **Dual Absorption:** Absorbed through both foliage and roots for maximum nutrient uptake and effectiveness.
- **Disease Resilience:** Phosphite enhances plant defences against pathogens, promoting overall turf health.

## Key Benefits

- **Rapid Nutrient Absorption:** Quick uptake via both leaves and roots ensures efficient nutrient delivery.
- **Improved Stress Tolerance:** Enhances resilience against drought, wear, and environmental stress.
- **Healthier, Denser Turf:** Promotes robust root and shoot growth for superior turf quality.
- **Natural Defence Stimulation:** Supports the turf's innate ability to fend off diseases, prolonging vitality.

## Why Choose SwardPhite?

- **Advanced Nutrient Delivery:** The small, reactive Phosphite molecules are absorbed and moved efficiently within the plant, targeting energy delivery when most needed, particularly during periods of rapid growth or environmental stress.
- **Dual Absorption Pathways:** SwardPhite maximises nutrient availability with both foliar and root uptake, ensuring comprehensive coverage. The overspray benefits soil nutrient levels, extending overall efficacy.
- **Enhanced Synergy:** Phosphite promotes the uptake of key nutrients like Calcium, Magnesium, Manganese, and Iron, ensuring optimal plant health and nutrient balance.
- **Phosphite for Disease Management:** Phosphite's disease preventing properties are essential for tackling root and crown diseases like Pythium, Phytophthora, and Downy Mildew. Its systemic activity ensures deeper protection, making it a valuable part of integrated turf management strategies.
- **Environmental and Economic Benefits:** Phosphite's low toxicity to non-target organisms and minimal environmental impact make it a sustainable choice. It is also cost-effective, reducing the need for frequent chemical treatments.

## Formulation Analysis

### Nutrient Composition:

- **Nitrogen (N):** Supports overall plant growth and turf density.
- **Phosphorus (P) as Phosphite ( $\text{PO}_3$ ):** Provides energy efficiency and enhances root development.
- **Potassium (K):** Ensures resilience to environmental stress, improving the overall health and robustness of the turf.
- **Phosphite ( $\text{PO}_3$ ) vs. Phosphate ( $\text{PO}_4$ ):** Phosphite is a more reactive, mobile form of Phosphorus, offering faster absorption and superior plant benefits, particularly under stress conditions.

## Key Nutrient Insights

- **Nitrogen (N) (4%):** Promotes healthy turf growth, boosting shoot and root development.
- **Phosphorus (P) (25%):** Critical for energy transfer, DNA synthesis, and root development. Essential for the overall vitality and photosynthetic activity of the plant.
- **Potassium (K) (16%):** Enhances the turf's ability to withstand environmental stressors and improves its overall density and resilience.

## Application Guidelines

### Timing

- Apply SwardPhite during periods of rapid growth or when the turf is under stress (e.g., extreme weather, high foot traffic) or facing conditions in which pathogens thrive.
- For optimal results, apply every 2–3 weeks.

### Method:

- Dilute the recommended dose in the appropriate water volume.
- Apply evenly using professional-grade spraying equipment.
- Reapply as needed during periods of stress or peak growth.

### Application Rate:

- **Dose:** 400 ml per 1,000 m<sup>2</sup> (4 litres per hectare).
- **Dilution:** Mix with 40–100 litres of water per 1,000 m<sup>2</sup> (400–1,000 litres per hectare).
- **Compatibility:** Compatible with most Vitax Amenity products (consult compatibility guidelines before tank mixing).

