

Simplot *Signature* ORGANIC

SPECIALLY FORMULATED LIQUID FERTILISER FOR TURF



SIGNATURE ORGANIC is a highly concentrated formulation of humic and fulvic acids in an aqueous form. Having the organic matter in this form allows for improved management of soil profiles where solid organic matter can cause nutritional imbalance and disease. Humic and fulvic acids provide physical, chemical and biological benefits to both soil structure and turf quality.

ANALYSIS

12 % Humic and Fulvic acids
as Leonardite Shale

DIRECTIONS FOR USE

TURF: 100 - 200 mls /100 m² as required.

WATER RATES:

Tees & Greens: 6 - 10 L /100 m²

Fairways: 400 - 600 L /Ha

Apply early morning or late afternoon.

COMPATIBILITY

Signature Organic is compatible with a wide variety of commonly used spray chemicals. When mixing with chemicals always mix a small quantity (jar test) to observe if any reaction occurs. If jar test is negative do not proceed with application.

make your course a *Signature*

Simplot

Available exclusively from your nearest Simplot distributor:

SIMPLOT PARTNERS. 20 DeHavilland Rd, Braeside, Vic 3195 (03) 9587 4993

NRRBS. 1/A Gateway Dr, Labrador, Qld 4215 (07) 5537 7323

TURFCARE NSW. Unit 8-24 Clyde St, Rydalmere, NSW 2116 (02) 9684 6611

TOTAL TURF. 2 Jessel Place, Duncraig, WA 6023 (08) 9448 5263

Simplot *Signature* **ORGANIC** 12% HUMIC & FULVIC ACIDS

THE ROLE OF HUMIC ACIDS IN GROWING QUALITY TURF

A sand profile is nearly void of the organic matter, which is an essential part of efficient soils. Low organic matter in sandy soils has very low capacity to store nutrients and retain water. This places the turf under undue stress increasing disease and weed susceptibility.

Humic acids are important organic molecules that form naturally in soils over long periods of time. These large molecules have binding sites that will capture and store nutrients. By adding Humic Acid to any field but particularly to sandy soils, the storage capacity for nutrients can be increased dramatically. A soil that captures and stores nutrients obviously provides a superior foundation for healthy turf. The use of liquid Signature Organic can precisely control the level of humus in the profile and provide the flexibility required to grow quality turf.

Adding Humic Acids will increase the ionic exchange capacity of the sandy soils. Humic Acids can buffer toxic salts, chemicals, excessive pH ranges and stimulate biological activity resulting in root proliferation. Liquid Humic acid mixtures contain both Humic and Fulvic acids to provide the physical, chemical and biological benefits of organic matter.

BENEFITS OF HUMIC ACID

- Increases nutrient uptake
More effective use of fertilizer
- Increase seed vigour.
Higher seed germination
- Initiates vigorous root development
- Buffers against high fertiliser salts and pH changes
- Increases drought tolerance
Improve retention of water.
- Increase beneficial soil microbe activity
Provide better environment for nutrient availability
- Improves yields and quality.

Signature Organic's indirect effect on the soil can be significant. Macronutrients eg Nitrogen and Micronutrients eg Iron can be made more available to plants. Inorganic Iron compounds tend to become unstable in the soil and unavailable. Signature Organic can incorporate Iron into a readily available form, making it available for plants to uptake. Signature Organic will also help to increase Nitrogen uptake by plants and increase soil Nitrogen utilization efficiency. Signature Organic is capable of retaining soil nutrients in an exchangeable form to be made available to plants as required.

Although often not always evident on the playing surface, research demonstrates that applications of Humic acid significantly increase photosynthesis, root enzyme activity and root mass which are the foundation of quality turf. Root enzyme activity can be enhanced by Humic acid application; therefore humic substances may increase plant root respiration substantially. Concentrations of humic acid as low as 0.05% have significantly increased root mass compared with untreated turf.

The issues in growing Turf like any other crop are many and varied. The use of Signature organic and other products in the " Simplot Signature Series" will aid in controlling the delivery of nutrients to the hungry root system.

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